

GenCore version 5.1.4_p5-4578
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OM nucleic - nucleic search, using sw model

Run on: March 23, 2003, 01:35:26 ; Search time 173 Seconds
(without alignments)
5050.417 Million cell updates/sec

Title: US-09-779-427-1
Perfect score: 2849
Sequence: 1 ggaatctggcggagcgcg.....ccccgagatggagcggtacc 2849

Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2849	100.0	2849	3	US-08-809-286B-1
2	110.4	3.9	1770	1	US-08-241-943-25
3	110.4	3.9	2019	1	US-08-254-357-3
4	110.4	3.9	4983	1	US-08-472-358-1
5	110.4	3.9	4983	5	PCT-US92-05786A-1
6	110.4	3.9	4984	1	US-08-687-806-1
7	105	3.7	13613	4	US-09-105-537-3
8	102	3.6	1785	2	US-08-910-856-1
9	102	3.6	3187	2	US-08-910-856-9
10	102	3.6	3187	2	US-08-910-856-10
11	92.2	3.2	5392	2	US-08-403-852D-1
12	92.2	3.2	5392	3	US-08-510-646B-1
13	92.2	3.2	5392	4	US-09-231-818-1
14	87.8	3.1	12001	1	US-08-458-568A-11
15	85	3.0	4257	2	US-08-690-473-1
16	85	3.0	4257	4	US-09-259-821A-1
17	85	3.0	4257	4	US-08-843-659-1
18	84.2	3.0	1248	4	US-09-105-537-7
19	84	2.9	15872	4	US-09-105-537-1
20	83	2.9	2277	1	US-08-676-967-5
21	83	2.9	2277	1	US-08-676-974-5
22	83	2.9	2277	2	US-09-098-487-5
23	79	2.8	2413	4	US-09-613-182-10
24	79	2.8	411529	4	US-09-103-840A-1
25	77.8	2.7	44377	2	US-08-804-227C-7
26	77.8	2.7	44377	2	US-08-804-198-1
27	77.4	2.7	4496	4	US-08-765-907A-6

28	76.8	2.7	2219	3	US-08-510-646B-17	Sequence 17, Appl
29	76.4	2.7	2220	4	US-08-765-907A-14	Sequence 14, Appl
30	75.2	2.6	1924	2	US-08-756-317-1	Sequence 1, Appl
c 31	75.2	2.6	8438	1	US-07-945-283-1	Sequence 1, Appl
32	74.6	2.6	3624	1	US-07-951-715A-6	Sequence 6, Appl
33	74.6	2.6	3624	2	US-08-459-448A-6	Sequence 6, Appl
34	74.6	2.6	3624	3	US-08-459-595A-6	Sequence 6, Appl
35	74.6	2.6	3624	3	US-08-459-504B-6	Sequence 6, Appl
36	74.6	2.6	3624	3	US-08-459-444-6	Sequence 6, Appl
37	74.6	2.6	3624	3	US-09-053-549-7	Sequence 7, Appl
38	74.6	2.6	3624	4	US-09-547-422-6	Sequence 6, Appl
39	74	2.6	13842	4	US-09-105-537-30	Sequence 30, Appl
40	74	2.6	36778	4	US-09-105-537-5	Sequence 5, Appl
41	74	2.6	38506	3	US-09-320-878-19	Sequence 19, Appl
42	73.4	2.6	13613	4	US-09-105-537-3	Sequence 3, Appl
43	70.8	2.5	2299	4	US-09-153-599A-1	Sequence 1, Appl
44	70.6	2.5	2712	3	US-09-025-691-4	Sequence 4, Appl
45	70.6	2.5	12588	2	US-08-387-942C-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-809-286B-1
; Sequence 1, Application US/08809286B
; Patent No. 6011144
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic
; TITLE OF INVENTION: fatty acids, and recombinant bacterial strains for
; TITLE OF INVENTION: carrying out the process
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,286B
; FILING DATE: 3-JUL-97
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patricia A. Kammerer
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: MOBT-152 (28-21(15115)A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2849 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Thiocapsa pfennigii
; IMMEDIATE SOURCE:
; CLONE: Pseudomonas putida SK 6691/Alcaligenes
; CLONE: eutrophus SK 6891
US-08-809-286B-1

Query Match 100.0%; Score 2849; DB 3; Length 2849;
Best Local Similarity 100.0%; Pred. No. 0;

09/779, 427
Examiner's Search
Notes 2/21/04

Qy 2161 GATCGCGCATCAGGAGTTCGACCTCGGCAACATCCGCTGCCCGCTCCTGAACATCTACCC 2220
Db |||||
Qy 2161 GATCGCGCATCAGGAGTTCGACCTCGGCAACATCCGCTGCCCGCTCCTGAACATCTACCC 2220
Db |||||
Qy 2221 GATGAGGACCACTGGTGGCGCGGATGCTCCCAAGGCCCTCGCGGACTGACCTCCAG 2280
Db |||||
Qy 2221 GATGAGGACCACTGGTGGCGCGGATGCTCCCAAGGCCCTCGCGGACTGACCTCCAG 2280
Db |||||
Qy 2281 CGAGGACTACAGGAGTTCGCTTCCCGCGGCGGACATCGGCATCTACGTCAGCGGAA 2340
Db |||||
Qy 2341 GCGGAGGAGAGTACACCCCGGCGATCGGCGCTGGCTGAACGACGCGGCTGAGCGG 2400
Db |||||
Qy 2401 GTCGACCAACCGCTCGAGCGCGCGGCGGCGGATCGAAGCGCGCGCGCGGCCA 2460
Db |||||
Qy 2461 TGAGCCATCCGCGCGCTGGCGCGCGCGCGCGGATCGAAGCGCGCGCGCGGCCA 2460
Db |||||
Qy 2521 CGCGCGCTGGGTCAATGACGGTCTTCGCGAGCGAGCGCGCGCGCGCGCGCGCGCG 2580
Db |||||
Qy 2581 CATGGGCGCGGACCACTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2640
Db |||||
Qy 2641 CCACCGCGCGCTTCGACATCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2700
Db |||||
Qy 2701 CTGCGCGACCTTCGACATCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2760
Db |||||
Qy 2761 CGACCGCGCGTGGCGGGTGACCGGGTGACCTTCGCGCGCGCGCGCGCGCGCGCGCG 2820
Db |||||
Qy 2821 GCGTACGTCCTCCGAGATGAGCGGATCC 2849
Db |||||

RESULT 2

US-08-241-943-25
; Sequence 25, Application US/08241943
; Patent No 5602321
; GENERAL INFORMATION:
; APPLICANT: John, Maliyakal E.
; TITLE OF INVENTION: TRANSGENIC COTTON PLANTS
; TITLE OF INVENTION: PRODUCING HETEROLOGOUS BIOPLASTIC
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nicholas J. Seay, Quarles & Brady
; STREET: First Wisconsin Plaza, One South
; STREET: Pinckney St.,
; STREET: P.O. Box 2113
; CITY: Madison
; STATE: WI
; COUNTRY: USA
; ZIP: 53701-2113
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/241,943
; FILING DATE:
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: us/07/980,521
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Seay, Nicholas J.
; REGISTRATION NUMBER: 27,386
; REFERENCE/DOCKET NUMBER: 11-229-9076-8
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (608) 251-2484
; TELEFAX: (608) 251-9166
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1770 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; HYPOTHEetical: NO
; PUBLICATION INFORMATION:
; AUTHORS: SINSKEY
; JOURNAL: J. Biol. Chem.
; VOLUME: 264
; PAGES: 15298-15303
; DATE: 1989
; US-08-241-943-25

Query Match 3.9%; Score 110.4; DB 1; Length 1770;

Best Local Similarity 48.9%; Pred. No. 8.5e-11;
Matches 461; Conservative 0; Mismatches 451; Indels 30; Gaps 5;

Qy 1383 GCGGCAAGCTCGCGAGGATGACAGAACCTGCTCAAGGCGGACGACATCGACACAGGGC 1442
Db 575 GCGGCAAGATCTCGAGACCGACGAGAGCGGCTTGGAGGTGCGCGCGCATGTGCGGTGA 634
Qy 1443 TCACCCCCAAGAGCTGCTCCACCGCGAGGACAAAGCTGCTTACCGCTACCGCGCGC 1502
Db 635 CGAAGGCGCGTGTCTTCGAGAACGAGTACTTCCAGCTGTTCAGTACAAAGCGCTGA 694
Qy 1503 CGCGCAGGTGCGACCGACGAGGATCCGCTGCTGATGCTTACGCCCTCTGCTCAATCGCG 1562
Db 695 CGGACAGGTG-----CACGCGCGCGCGCTGCTGATGCTGCGCGCGCTGCATCAACAAGT 748
Qy 1563 CCTACATGACGACATCCAGGAGGATCCGCTGACGATCAAGGGCCTGCTCGCCACCGGTC 1622
Db 749 ACTACATCTGGACCTGAGCGGAGAGCTGCTGCTGCGCATGTGTGGAGCGGGAC 808
Qy 1623 AGGAGCTCTATCTGATCGACTGGGGCTACCGGGATACCGCGGCTGAGCCCTCG 1682
Db 809 ATACGCTGTTCTGCTGCTGGCGCAATCCGAGCGCAGCATGCGCGGACGACCTGGG 868
Qy 1683 ATGACTACAAAGCTGATCGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1742
Db 869 ACGACTACATGAGCACGCGGCGCATCCGCGCGCATCGAAGTTCGCGCGCGCATCGAGCGCC 928
Qy 1743 TCGACGAGTCAACCTGCTCGGATCTCCAGGGCGGGCGCTTACGCTCTCTGCTACAGG 1802
Db 929 AGGACAAAGATCAACGCTGCTGCGCTTCTGCTGCGGCGGCGGCGGCGGCGGCGGCTG 988
Qy 1803 CCCTGCACTCCGAGAAAGGTCAAAAACCTCTGCTCACCATGCTCAGCGCGGCTGACTTCCAG- 1861
Db 989 CGGTGCTGGCGCGCGCGCGGAGGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 1048
Qy 1862 -----ACCGCGGCGAACTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1913
Db 1049 TGGACTTTTGGCGGCGGCTG 1108
Qy 1914 CGGTGACACCATGGGCAACATCCCGGGCGGAC-----TGCTCACTGGAGCTTCTCTGT 1967
Db 1109 GCGAGGCCACGCTGGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTGAGC 1168


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; MEDIUM TYPE: storage
; COMPUTER: IBM AT
; OPERATING SYSTEM: MS-DOS (version 3.3)
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION NAME:
; APPLICATION NUMBER: PCT/US92/05786A
; FILING DATE: 19920713
; FILING DATE: priority under the Paris Convention
; FILING DATE: to the prior U.S. filing.

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Query Match 3.9%; Score 110.4; DB 5; Length 4983;
Best Local Similarity 48.9%; Pred. No. 9.3e-11;
Matches 461; Conservative 0; Mismatches 451; Indels 30; Gaps 5;

1383	QC	CGCGAAGCTCGCGAGAGGTATGCGAAGACCTGCTCAAGGCCGACAGATCGACACAGCGC	1442
1419	DB	CGCGCAAGATCTCGCAGACCGACGAGAGCGGCTTTGAGTTCGGCGCAATGCTCGCGGTGA	1478
1443	QC	TCACCCCAAGAGCTGCTCCACCGCGAGGACAAAGCTGGTCTCTACGCTACCGCGCGCC	1502
1479	DB	CGAAGGCGCGTGGTCTTCGAAAGAGTACTTCCAGCTTTGCAGTTACAAGCCGTGA	1538
1503	QC	CGCGCAGGTGGCGACCCAGACGATCCCGCTGCTGATCGTCTACGCCTCTGTCAAATCGGC	1562
1539	DB	CCGACAAAGTG-----CACGGCGCGCGCTGCTGATGGTGC CGCGTGCATCAACAAGT	1592
1563	QC	CTTACATGACCGACATCCAGGAGGATCGCTCGACATCAAGGGCTGCTCGCCACCGTC	1622
1593	DB	ACTACATCTTGACCTGCAAGCCGAGAGTCTGCTGGTGGCGCATGTGGTGGAGCAGGAC	1652
1623	QC	AGACGCTATCTGATCGACTGGGGCTACCCGGATCAGCGCGACCGGGCGCTGACCCCTCG	1682
1653	DB	ATACGGTGTCTTGGTGTCTGTGGCGCAATCCGGACCGCAGCATGGCGGACACCTGGG	1712
1683	QC	ATGACTTACATCAACGGCTACATGACCGTGGTGGTGCATCTCTGGGCGAGACCAACCGG	1742
1713	DB	ACGACTTACATCGAGCACGGCGGCATCCGGCGCATCGAAGTCCGCGCGACATCAGCGGCC	1772
1743	QC	TCGACCAGGTCAACCTGCTCGGGAATCTGCGAGGGCGGGCGCTTCAGCTCTGCTACACGG	1802
1773	DB	AGGACAAGATCAAGTGCTCGGCTTCTGGTGGCGGCACCATGTTCTCGACCGCGCTGG	1832
1803	QC	CCCTGCATCCGAGAAGGTCAAAACCTTGTCACCATGGTCAAGCCGGTTCAGTTCAG-	1861
1833	DB	CGGTGTGCGCGCGCGCGAGACCCGGCGCAGCGTCACTGCTGCTGACCAACGCTGC	1892
1862	QC	-----ACCCGGGCAACCTGCTCTGGCCCTGGGTCCAGAAAGTCTGAGCTCGACCTGG	1913

[illegible]

Qy 2071 CTTCCAGACCCCGGACCGAGCCCGGCGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 2127
Db 12032 CTTCCAGACCCCGGACCGAGCCCGGCGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 11973
Qy 2128 CCAGCGCAACGGCTTCATCAAGCGCGGCTCTGATCGCGATCAGGAGTGA---CCT 2184
Db 11972 CGAGCGCAACGGCTTCATCAAGCGCGGCTCTGATCGCGATCAGGAGTGA---CCT 11913
Qy 2185 GGGCAACATCGCTCCCGGCTCTGAAATCATCTACCCGATCAGAGCACCTTGGTCCGCC 2244
Db 11912 GCACACCGCGCTACTTCTCGCGGGTGCACAGCTGAGCGCTACCGCGGCGAGCC 11853
Qy 2245 GGATCCCTCAAGCCCTCGCGGCTGAGCTCCAGCGAGGACTACAGGAGTCCGCTT 2304
Db 11852 GCACCGCGCTGCGGCTGAGCTCCAGCGCTGCGCGCGTGTCTCCGCGAGCCG 11793
Qy 2305 CCCCGCGGACATCGGATCTAGTACGGGCAAGGGGAGGAGTACACCCCGC 2364
Db 11792 CACCGCCATCGCGGACGACATCCGCGGGTCCGACCTGCTGCGTCTCTGCGGAC 11733
Qy 2365 GATCGCGCTGGCTGAAAGAAAGCGGCTGAGCGGGTGCACCCAGCTCGAGCGGCG 2424
Db 11732 CCGCGCGGCTGAGCTGAGCGGCGGCTGAGCGGGTGCACCCAGCTCGAGCGGCG 11675
Qy 2425 CGCGCGGCGGATCGAAGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2484
Db 11674 CCGCGCGGCTGAGCTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 11616
Qy 2485 CGCGCGGCGGCTGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2544
Db 11615 ACCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 11558
Qy 2545 CTTTCGCGAGCGAGCGCGGCTGCTCAAGCGAGGCTGATGGCGCGGCGGCGGCGGCGG 2604
Db 11557 --CGTTCGCGAGCGGCTGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 11500
Qy 2605 GCGCGCTGAGCGAGCGGCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2664
Db 11499 CGCGCGGCGGCGGCGGCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 11440
Qy 2665 CGCGCTGCGAGGAGCTTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2724
Db 11439 GAGCGCGGCGGCGGCGGCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 11380
Qy 2725 CTGCGCGCGCGGCGGCGGCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2773
Db 11379 CGCGCGGCTCCGAGGCTCCCGACCGCGGTCGAGACCGGCGGCGGCGGCGGCGGCGG 11331

RESULT 8

US-08-910-856-1
; Sequence 1, Application US/08910856
; Patent No. 5981257
; GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIKI
; APPLICANT: DOI, YOSHIMARU
; TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
; TITLE OF INVENTION: FOR PRODUCING POLYESTER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P. C.
; STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
; CITY: LA JOLLA
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910.856

; FILING DATE: 13-AUG-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 214509/1996
; FILING DATE: 14-AUG-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 199979/1997
; FILING DATE: 25-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: HATLE, LISA A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07898/016001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-678-5070
; TELEFAX: 619-678-5099
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1785 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1782
; US-08-910-856-1

Query Match 3.6%; Score 102; DB 2; Length 1785;

Best Local Similarity 46.9%; Pred. No. 2.3e-09;
Matches 392; Conservative 0; Mismatches 435; Indels 9; Gaps 2;

Qy 1500 GCCCGCGGCGAGTGGCGACCCAGACGATCCCGCTGCTGATCGTCTTACGCCCTTCGTCATC 1559
Db 686 GCCCGACTACCGAGCGGTGGGCAAGACACCTGTGCTGATGTCGCGCTTCATCAACA 745
Qy 1560 GGCCTTACATGACGACATCCAGGAGGATCGCTGACGATCAAGGGCTGTCTGGCCACG 1619
Db 746 AGTACTACATGACATGCGGCGCCAGAACTCCCTGCTGCTGCTGCTGCTGCTGCTGCTG 805
Qy 1620 GTCAGGAGTCTATCTGATCGACTGGGGTACCCGGATCAGCGCGGCGGCGGCGGCTGACCC 1679
Db 806 GCCAGACGGTATTATGATCTCTGGCGCAACCCGGGCGTGGCGCGGCGGCGGCGGCGGCTG 865
Qy 1680 TCGATGACTACATCAACGGCTACATCGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1739
Db 866 TCGAGCTACGTTGGTGGATGCGCGCTGCTGCGCGCTGCGCGGCTGCGGCGGCGGCGGCGG 925
Qy 1740 CGCTCGACAGGTCAACCTGCTCGGGATCTCCAGGGGCGGCGGCTTACGCTCTGCTACA 1799
Db 926 CGAGCGGGAGGTGCACGGCATCGCTACTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCT 985
Qy 1800 CGGCGCTGCTCCGAGAGGTC---AAAAACCTCGTCACCATGTCACGCGGCTCGACT 1856
Db 986 TGGCTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCT 1045
Qy 1857 TCCAGACCCCGGCAACCTGCTCTCGGCTCGGCTCCAGAACGTCGACCTCGACCTGGCGG 1916
Db 1046 CCCTGCTGGACTTCTCCAGCGCGGCGGAGTTGGCATCTTCATCCAGCGGCGGCGGCGGCT 1105
Qy 1917 TCGACACCATGGGCAACATCCGCGCGGAACTGCTCAACTGGACCTTCTGCTGCTCAAGC 1976
Db 1106 CGGCGCTCGAGCGCAAAATGAGGCGCATCATGAGCGGCGGCGGCGGCGGCGGCGGCT 1165
Qy 1977 CTTTCAGCTGACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2036
Db 1166 CTTTCAGCTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1225
Qy 2037 AGGTCAAGAACTTCTGCGGATGGA-----GAAGTGGATCTTCAGACCGCGGCGGCGGCGG 2090
Db 1226 AGGTTCAGAGCGCGGCTGCGCTTCGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1285
Qy 2091 CGGCGGAGACCTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2150

Db 1286 CGGGCAAGACCACAAAGCCTGCTGCGCGCTCTCTACTCGAGAACAGCTGGTGAAGG 1345
Qy 2151 GCGGCGTCTGTATCGCGCATCAGGAGGTGCACTCGGCAACATCCGTCGCCGCTCTGA 2210
Db 1346 GGGAGCTCAAGATCCGCAACACCCGCATCGATCTCGGCAAGGTGAAGACCCCTGTGCTGC 1405
Qy 2211 ACATCTACCGATGAGACACACCTGTTGCGCGCGATGCTTCAAGGCGCTCGCGGAC 2270
Db 1406 TGGTGTGCGCGGTGACCATCATCGCCCTCTGCGCAGGCGACCTGGCAGGGCATGAAGC 1465
Qy 2271 TGACCTCCAGCGAGACTACACGAGCTCGCTTCCCGCGCGGACACATCGGCATC 2326
Db 1466 TGTGTTGGCGGAGCAGCGCTTCTCTCGCGGAGTCCGGCCACATCGCGCGCATC 1521

RESULT 9
US-08-910-856-9
; Sequence 9, Application US/08910856
; Patent No. 5981257
; GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIKI
; APPLICANT: DOI, YOSHIHARU
; TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
; TITLE OF INVENTION: FOR PRODUCING POLYESTER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P. C.
; STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
; CITY: LA JOLLA
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,856
; FILING DATE: 13-AUG-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 214509/1996
; FILING DATE: 14-AUG-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 199979/1997
; FILING DATE: 25-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: HAILE, LISA A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07898/016001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-678-5070
; TELEFAX: 619-678-5099
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3187 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 384..734
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 830..2611
US-08-910-856-9

Query Match 3.6%; Score 102; DB 2; Length 3187;
Best Local Similarity 46.9%; Pred. No. 2.4e-09;
Matches 392; Conservative 0; Mismatches 435; Indels 9; Gaps 2;

Qy 1500 GCCCGGCGCAGGTGGGACCCAGAGCATCCGCTGCTGATCGTCTACGCCCTCGTCAATC 1559
Db 1515 GCCCGACTACCGAGACGGTGGGCAAGACACCTGTCTGTATAGTGCCTCTTCATCAACA 1574
Qy 1560 GGCCTTACATACCGACATCATCAGGAGGATCGCTCGACGATCAAGGGCTGTCTCGGCCACCG 1619
Db 1575 AGTACTACATCATGACATATCGGCCCCAGAACTCCCTGGTGCCTGGTGGTGGTGGCCAGG 1634
Qy 1620 GTCAGGAGCTTATCTGTAGTACGCTGGGGCTACCGGATACAGGCGGACCGGGCGCTGACCC 1679
Db 1635 GCCAGACGGTATTATGATCTCTTGGCGCAACCGCGGGGTGCCCCAGGCCCAAAATCGATC 1694
Qy 1680 TCGATGACTACATCAACGGCTACATCGACCGCTGCGTGCATCTCTGCGCGAGACCCACG 1739
Db 1695 TCGACGACTACGTGGTGGATGGCGTCTATCGCGGCTTGGACGGGTGGAGCGGCCACCG 1754
Qy 1740 CGCTCGACAGGTCAACCTGCTCGGGATCTCGAGGGGGGGGCTTCAGCGCTCTCTTACA 1799
Db 1755 GCGAGCGGAGGTGCAACGGCATCGGCTACTGCTATCGGCGGCGCACGCCCTGTCTCGTCCGA 1814
Qy 1800 CGGCCCTGCACTCCGAGAAAGTCT---AAAAACCTGTGTCACCATGGTCAACGGCGGTGACT 1856
Db 1815 TGGGCTGCTGCGCGCGCGGCGCAGAAAGCAGCGGTGCGCACCGCCACCTGTTCACTA 1874
Qy 1857 TCCAGACCCCGGGAAACCTGCTCTGCGGCTGGGTCCAGAAAGTGCAGCTGCACCTGGCGG 1916
Db 1875 CCCTGCTGACTTCTCCAGCGCCGGGAGCTTGGCATCTTATCCACGAGGCCCATATAG 1934
Qy 1917 TCGACACCATGGGAAACATCCGCGGCGAACTGCTCAACTGCGACCTTCTGCTGCTCAAGC 1976
Db 1935 CGCGCTCGAGCGCAAAATGAGGCCAAGGGCATATGACGGGCGGCGCAGCTGGCGGTCT 1994
Qy 1977 CTTTCAGCTTGAACCGGCGCAGAAAGTACGTCAACATGGTTCGACCTGCTCGACGACGAGGACA 2036
Db 1995 CTTTCAGCTTGTCTCGGAGAAACAGCTCTACTGSAACCTACTACATCGACAGCTACCTCA 2054
Qy 2037 AGTCAAGAACTTCTGCGGATGA-----GAAGTGAATCTTCGACAGCCCGGACCCAGG 2090
Db 2055 AGGGTCAGAGCCCGGTGGCTTCGATCTGTCATCTGTCAGCAGCGACGACCAATGTGG 2114
Qy 2091 CGGCGAGACCTTCGCGCAGTTTCATCAAGGACTTCTACAGCGCAACGGCTTCATCAAGC 2150
Db 2115 CGGCAAGACCCACAAACAGCTGCTGCGCGCTCTACTCGAGAACGACGTGGTGAAGG 2174
Qy 2151 GCGGCTCTGTATCGGCGATCAGGAGGTGACCTTCGCAACATCCGCTGCCCGGTCTCTGA 2210
Db 2175 GGGAGCTCAAGATCCGCAACACCCGCATCGATCTCGGCAAGGTGAAGACCCCTGTGCTGC 2234
Qy 2211 ACATCTACCGATGAGGACCACTGCTGCGCGCGGATGCTTCCAGGCGCTTCGCGGAC 2270
Db 2235 TGGTGTGCGCGTGGACGATCACATCGCCCTTGGCAGGGCACCTTGGCAGGGCATGAAGC 2294
Qy 2271 TGACCTCCAGCGAGACTACAGGAGCTCGCTTCCCGCGGCGGACATCGGCATC 2326
Db 2295 TGTGTTGGCGGAGCAGCGCTTCTCTGCGGAGTCCGGCCACATCGCGCGCATC 2350

RESULT 10
US-08-910-856-10
; Sequence 10, Application US/08910856
; Patent No. 5981257
; GENERAL INFORMATION:
; APPLICANT: FUKUI, TOSHIKI
; APPLICANT: DOI, YOSHIHARU
; TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
; TITLE OF INVENTION: FOR PRODUCING POLYESTER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P. C.
; STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
; CITY: LA JOLLA
; STATE: CA
; COUNTRY: USA

Db	1995	CCITCAGCCTGCTGCGGAGAACAGCCTCTACTGGAACCTACTACTCATCGACAGCTACTCA	2054
Qy	2037	AGGTCAAGAACTTCTCTCGGATGGA-----GAAGTGGATCTTCGACAGCCCGGACCAGG	2090
Db	2055	AGGTGAGAGCCCGGTGGCTTCGATCTGCTGCTGCACTGGAACAGCAGCACCACCAATGTGG	2114
Qy	2091	CGGCGGAGACCTTCGCGCAGTTTCATCAAGGACTTTTACAGCGCACAAGGTTTCATCAACG	2150
Db	2115	CGGCAAGAGCCCAACAGCCTGCTGCGCGCTCTCTACCTTGGAGAAACCAAGTGTGAAGG	2174
Qy	2151	GCGCGCTGCTGATCGGCGATCAGAGGTGACCTCGCGCAACATCCGCTGCCCGGCTCCTGA	2210
Db	2175	GGGAGCTCAAGATCCGCAACACCCGGATCGATCTCGCAAGGTGAAGACCCCTGTGCTGC	2234
Qy	2211	ACATCTACCGGATGCGAGACACCTGCTGCGCGCGGATGCTCCAGAGGCCCTCGCGGAC	2270
Db	2235	TGGTGTGCGCGGTGGACGATCACATCGCCCTCTGCGAGGACCTGCGAGGGCATGAAGC	2294
Qy	2271	TGACCTCCAGGAGGACTACAGGAGCTCGCTTCCCGCGGCGGACATCGGCGATC	2326
Db	2295	TGTTTGGCGGAGAGCAGCGCTTCTCTGCGGAGTCCGCGCACATCGCGCGATC	2350
<p>RESULT 11</p> <p>US-08-403-852D-1</p> <p>; Sequence 1, Application US/08403852D</p> <p>; Patent No. 5891695</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: Blanc, Veronique</p> <p>; APPLICANT: Blanche, Francis</p> <p>; APPLICANT: Crouzet, Joel</p> <p>; APPLICANT: Jacques, Nathalie</p> <p>; APPLICANT: Lacroix, Patricia</p> <p>; APPLICANT: Thibaut, Denis</p> <p>; APPLICANT: Zagorec, Monique</p> <p>; APPLICANT: Debussche, Laurent</p> <p>; APPLICANT: De Crecy-Lagard, Valerie</p> <p>; TITLE OF INVENTION: Polypeptides Involved In The</p> <p>; TITLE OF INVENTION: Biosynthesis Of Streptogramins, Nucleotide Sequences</p> <p>; TITLE OF INVENTION: Coding For These Polypeptides And Their Use</p> <p>; NUMBER OF SEQUENCES: 43</p> <p>; CORRESPONDENCE ADDRESS:</p> <p>; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner</p> <p>; STREET: 1300 I Street, N.W., Suite 700</p> <p>; CITY: Washington</p> <p>; STATE: D.C.</p> <p>; COUNTRY: USA</p> <p>; ZIP: 20005-3315</p> <p>; COMPUTER READABLE FORM:</p> <p>; MEDIUM TYPE: Floppy disk</p> <p>; COMPUTER: IBM PC compatible</p> <p>; OPERATING SYSTEM: PC-DOS/MS-DOS</p> <p>; SOFTWARE: PatentIn Release #1.0, Version #1.30</p> <p>; CURRENT APPLICATION DATA:</p> <p>; APPLICATION NUMBER: US/08/403,852D</p> <p>; FILING DATE: 10-MAY-1995</p> <p>; PRIOR APPLICATION DATA:</p> <p>; APPLICATION NUMBER: PCT/FR 93/00923</p> <p>; FILING DATE: 25-SEP-1993</p> <p>; PRIOR APPLICATION DATA:</p> <p>; APPLICATION NUMBER: FR 92/11441</p> <p>; FILING DATE: 25-SEP-1992</p> <p>; ATTORNEY/AGENT INFORMATION:</p> <p>; NAME: Meyers, Kenneth J.</p> <p>; REGISTRATION NUMBER: 25,146</p> <p>; REFERENCE/DOCKET NUMBER: 03806.0054-00000</p> <p>; TELECOMMUNICATION INFORMATION:</p> <p>; TELEPHONE: (202) 408-4000</p> <p>; TELEFAX: (202) 408-4400</p> <p>; INFORMATION FOR SEQ ID NO: 1:</p> <p>; SEQUENCE CHARACTERISTICS:</p> <p>; LENGTH: 5392 base pairs</p> <p>; TYPE: nucleic acid</p>			

Db 4946 ACAAGTGCCTTCGGCCTCGCGGCTCGGCTCACCCCCAGTGGTGGCGCGTGG 5005
Qy 2769 GCTGGCGGTGACCGGGGTGAGACTTCTGTCGCCGCCATGTCTGCCCTCGCGGCGCGCTACG 2828
Db 5006 GCAGCGACTTCGCCGAGTACGAGGTCTGGCTCAAGGACACGCGGTGACACCGCGCCCG 5065
Qy 2829 TCC 2831
Db 5066 TCC 5068

RESULT 12
US-08-510-646B-1
; Sequence 1, Application US/08510646B
; Patent No. 607699
; GENERAL INFORMATION:
; APPLICANT: Blanc, Veronique
; APPLICANT: Blanchet, Francis
; APPLICANT: Crouzet, Joel
; APPLICANT: Jacques, Nathalie
; APPLICANT: Lacroix, Patricia
; APPLICANT: Thibaut, Denis
; APPLICANT: Zagorec, Monique
; APPLICANT: Debussche, Laurent
; APPLICANT: De Crecy-Lagard, Valerie
; TITLE OF INVENTION: Polypeptides Involved In The
; TITLE OF INVENTION: Biosynthesis Of Streptogramins, Nucleotide Sequences
; TITLE OF INVENTION: Coding For These Polypeptides And Their Use
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/510.646B
; FILING DATE: 03-AUG-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/403,852
; FILING DATE: 10-MAY-1995
; PRIOR APPLICATION NUMBER: PCT/FR 93/00923
; FILING DATE: 25-SEP-1993
; APPLICATION NUMBER: FR 92/11441
; FILING DATE: 25-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03806.0054-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5392 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: S.pristinaespiralis

US-08-510-646B-1

Query Match 3.2%; Score 92.2; DB 3; Length 5392;
Best Local Similarity 42.3%; Pred. No. 1.1e-07;
Matches 889; Conservative 0; Mismatches 1193; Indels 21; Gaps 6;

Qy 731 CGCTCGTGAAGTACCAAGTGGGCGCTGAAAGATACAAAGGCTTCTTCGGCCAGCTCGG 790
Db 2985 CGGCTGGCTCGAGACGACACACCGACCCCGAGGGCGCACCGCGAACTCATCGA 3044
Qy 791 TGTCAAGTCCCTCGAGCGGATGCGCGCTTCTCGAGGACAGGCGGAGAGGGGTGCG 850
Db 3045 CGTGTCCGCGGCTGTGGGACAGCTTCAGACGACGCCCTTCGTCACGACCGCGCGCA 3104
Qy 851 CATCGAGTCGGCGGCGACCCCTCTACGACGCTGGGTGCGGTGCTCGGAAGAGGTCTATGC 910
Db 3105 CGGCTGTACTGGCGGTGCGCGCGCTCCACCACTCGACCAACAGGCGAGCACTTCGA 3164
Qy 911 CGAGAGGTACGCTCCGCGACTACGGCGCATCATCACGGCGGCTTCGTCAAGCCAGAT 970
Db 3165 CGTGGCGGCGCCCTCAACGTCGCGCGCGCGAGGGCCACCCCGTCTGTCGCGGTTCAC 3224
Qy 971 GGCCTCAAGCAGCGCATGTCGACCATGGTTCGAGAGTCTCGGCGGATGCCGCTGCC 1030
Db 3225 CGGCGCGGCTCGCGCGGCGCGGCTTCTGCTCGACGAGGCGGCGGCGAGCGCGCG 3284
Qy 1031 GACCGCGACGAGTTCGCGACGCTCCAGGATCGGCTCCAGAGTTCGCGCGGCGAGGCA 1090
Db 3285 CTCGGTGAAGCAGGAGGACCGCAGCGCAAGATCCTCTCGCGTCCGCGCGCGCGCG 3344
Qy 1091 GCGCAGCGCCAAAGATTCGAGACGCTGAAGGGAGTTCGGGCGCTTGGCGCGGCGCG 1150
Db 3345 CGAATGCGCGCGACAGCGCGCGGAGCGGTTACGCTGCGGTTCACCGGTCTCGACGA 3404
Qy 1151 CCAGCGCGCGCGCGCGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1210
Db 3405 CCGGTCTCGCGCGGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3464
Qy 1211 GCGCGCGAGCG 1270
Db 3465 CTGCGCGAAGCGCTGGGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 3524
Qy 1271 CACCGCGCAGTGTGTCGGCGCGCGCGTCCATCGCGCACAGGAGAGTGCCTGTTC 1330
Db 3525 ACGACCGCTCGCGCGCTGCTTCTTGAGAGTTCATGTCCTCGCTGCTTACCTCTGG 3584
Qy 1331 TTCCCGATCGATCCG 1390
Db 3585 TCCGTGACCGAGGCG 3643
Qy 1391 CTCGGCGAGGGTATGCAAGAACTGCTCAAGGCGCGCGCGCGCGCGCGCGCGCGCG 1450
Db 3644 --CGCCCTGCTGGCGGAGACCCCGCTCAGCGTTCGCGGTGAGACCTGATCACCAC 3701
Qy 1451 AAGGACGTGTCACCGCGGAGCAAGTGTGCTCTTACCGCTACCGGCGCGCGCGCG 1510
Db 3702 --GGCCAGGTCCATCGCGCGGAGGTACCAAGGGGTACGCGCGCGCGCGCGCG 3758
Qy 1511 GTGGCGACCGAGACGATCCCGCTGCTGATGCTCTAGCGCTCGTCAATCGGCCCTAC 1570
Db 3759 CTGGTCCCGGACACGATCCTGGCCATCGGCTACGACTGTCGCGCGCGCGCGCG 3818
Qy 1571 ACCGACATCCAGGAGGATCGCTTCGACGATCAAGGGCGCTGCTCGCGCGCGCG 1630
Db 3819 GCCTCTGCGGCGTCTCCGTCTCCATCGCGCGCGAGTCCCGGACATCGCCAGGCG 3878
Qy 1631 TATCTGATCGACTGGGGCTACCCGGATCAGGCGCGCGCGCGCTGACCGCTGATG 1690
Db 3879 GACAGCGCTACGAGACCGCGGTTCGAGGGCGGAGGACGAG-----CTCGACGAG 3932
Qy 1691 ATCAACGGCTACATCGACCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1750
Db 3933 GCGCGCGCGGACCGAGGCGCTGATGTTTCGGTACGCGCACCGAGACCGCGCTGCT 3992

QY 1751 GTCAACCTGCTCGGATCTGCGAGGGGGGCTTACAGCTTGTCTACACGGCCCTGCAC 1810
Db |||||
QY 3993 CCGCTGCCCATCGAGCTGCCACCGCTCTCGCGCGGCTCACGAGGTCCGCAAGGAC 4052
Db |||||
QY 1811 TCCGAGAGGTCAAAAACCTCTGTCAACATGTGTACGCGCGGTGACTTCAGACACCCCGGCG 1870
Db |||||
QY 4053 GGCACCGTCCCTACTCTGCGCCCGGACGCGCAGACCCAGGTCAACATCGAGTACAGGGC 4112
Db |||||
QY 1871 AACCTGTCTCGGCTGGGTCCAGAACTGCGAGCTGACCTGGCCGTGACACCATGGGC 1930
Db |||||
QY 4113 AGCCGCGCGGTGCGCTGACACCGCTGCTGTCTCTCCAGACACGCGCCGACATCGAC 4172
Db |||||
QY 1931 ACATCTCCGGGCGAAGTCTCAACTGGACCTTCTGTCTGCTCAAGCCCTTCAGCTGACC 1990
Db |||||
QY 4173 CTCGGCTCCCTGCTCACCCCGACATCCGCGAGACGCTGTCGAGCACGTCTCTCCCGCA 4232
Db |||||
QY 1991 GGCAGAGAGTCTCAACATGTGTCAACCTGTCTGCGACGACGAGACAAAGTCAAGAACTTC 2050
Db |||||
QY 4233 CTCGCGGAGGACGATCAAGCTCGAGCGGACAACTACCGCTGTGTCTAACCGGACC 4292
Db |||||
QY 2051 CTGCGGATGGAGAGTGGATCTTCAGACACCCGCGACGCGGCGGAGACCTTCGCGCAG 2110
Db |||||
QY 4293 GGCCTTTTCA-----GATCGCGCGCGATGGCGGACGCGCGCTGACCGCGCGCAAG 4346
Db |||||
QY 2111 TTCATCAAGGACTTCTACAGCGGAAAGGCTTCTACAGCGGCGGTCTGTGATCGGCGAT 2170
Db |||||
QY 4347 ATCATCATCGACACATCGCGGCGATGGCGCGCCACGCGGTGGCGCGTTCCTCCGCGAAG 4406
Db |||||
QY 2171 CAGGAGGTCTGCTCGCAACATCTGCTCGCGGTCTTGAACATCTACCCGATGAGGAC 2230
Db |||||
QY 4407 GACCGTCAAGGTCTGACCGTTCGCGCGGTAGCGATGCGTGGGTGCCAAGAACGTTC 4466
Db |||||
QY 2231 CACTGTGTCGCGCGGATGCTCTCAAGGCGCTTCGCGGAGCTGACCTCCAGCGAGGACTAC 2290
Db |||||
QY 4467 GTGCGCGGGCTCGCTCCGCTCGCGGTCCAGGTCCAGTCCGCTACGCGCATCGCAAGGCC 4526
Db |||||
QY 2291 ACGGAGCTGCGCTTCCCGCGGGGACATCGGCATCTAGTCAAGCGGCAAGCGCAGGAA 2350
Db |||||
QY 4527 GAGCGCGTGGCTCTTCTGTCGAGAGCTTTCGCGCAGCGGACCGGACCGCTGCCCGAGGC- 4585
Db |||||
QY 2351 GGAGTCAACCCCGGATCGCGCGCTGGCTGTAACGACGCGGTGAGCGGCTCGACCCAC 2410
Db |||||
QY 4586 CGAAGGCGCATACCGAGGTCTTCACTGCGCGCGCGGCGCATCATCCGCGACTCGA 4645
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QY 2411 CCGCTCGAGCGCGCGCGGCGATCGAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2470
Db |||||
QY 4646 CCGTCTGCG 4705
Db |||||
QY 2471 GCGCGCTGGCG 2530
Db |||||
QY 4706 CGACTTCACTGGGAGCGGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 4765
Db |||||
QY 2531 CGTACATGACCGTCTTCGCGAGC--GAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2588
Db |||||
QY 4766 AGCGCGCGGACCTGTGAGGAGACTGAGTGGCGCGCGCGCGCGCGCGCGCGCGCGCG 4825
Db |||||
QY 2589 CCGACCACTGCTGCG 2648
Db |||||
QY 4826 CCGACCATGATGCTTCTCCCGCGCGGTTCGCGGATCAGCTGATCCCGGACGAGCTG 4885
Db |||||
QY 2649 GCCTTTCGACATGCGCGCGCGGTGCTCGAGGACATCTTTCGCGCGCGCTGCGCGCG 2708
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QY 4886 CTCATGCTCTGCTCTCTCTCTGTCGACGCACTCGAGTGGCGCGCGCGCGCGCGCG 4945
Db |||||
QY 2709 CCCTCTGACCTCGGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2768
Db |||||
QY 4946 ACAAAGTCCGCTTCG 5005
Db |||||
QY 2769 GCTGCGGCGTGAACCGGGGTGAGTCTTCTGCGCGCGCGCGCGCGCGCGCGCGCGCG 2828
Db |||||
QY 5006 GCAGGCACTTCCCGGAGTACGAGGTCTGCTCAAGGAACACGGGCTGACACCGCGCGCG 5065
Db |||||

QY 2829 TCC 2831
Db 5066 TCC 5068

RESULT 13

US-09-231-818-1
; Sequence 1, Application US/09231818
; Patent No. 6171846
; GENERAL INFORMATION:
; APPLICANT: Blanc, Veronique
; APPLICANT: Blanc, Francis
; APPLICANT: Crouzet, Joel
; APPLICANT: Jacques, Nathalie
; APPLICANT: Lacroix, Patricia
; APPLICANT: Thibaut, Denis
; APPLICANT: Zagorec, Monique
; APPLICANT: Debussche, Laurent
; APPLICANT: De Crecy-Lagard, Valerie
; TITLE OF INVENTION: Polypeptides Involved In The
; TITLE OF INVENTION: Biosynthesis Of Streptogramins, Nucleotide Sequences
; TITLE OF INVENTION: Coding For These Polypeptides And Their Use
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/231,818
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,852
; FILING DATE: 10-MAY-1995
; APPLICATION NUMBER: PCT/FR 93/00923
; FILING DATE: 25-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/11441
; FILING DATE: 25-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03806.0054-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5392 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: S.pristinaespiralis
US-09-231-818-1

Query Match 3.2%; Score 92.2; DB 4; Length 5392;
Best Local Similarity 42.3%; Pred. No. 1.1e-07;
Matches 889; Conservative 0; Mismatches 1193; Indels 21; Gaps 6;

QY 731 CCGCTCGCTGGAGTACCACTCGGCGCTCAACGAATACAAACGCTTCTTCGCGCAGCTCGG 790
Db 2985 CGGCTGGCTCGGAGCACGACACCGACCGCCGAGGGCGCGCAACTCATCGA 3044

Qy 791 TGTCAGTCCCTCAGCGGATCGCGCCCTTCTGCAGGACAGCGCGGAGAAAGGGCGTCC 850
Db |||||
Qy 3045 CGTCGCGCGCCTGTGGGACAGCTTCAGACGACGAGCGCTTCGTCCACGACCGCGCGA 3104
Db |||||
Qy 851 CATCAGTCGGCGCGGACCCCTCTACGACGCCCTGGGTGGCTCTGCGGAGAGGTCTATGC 910
Db |||||
Qy 3105 CGGCGCTGACTGGCGGCTGCCCGCGCTCACCAACTCGACCAACGAGGGCAGGCACTTGA 3164
Db |||||
Qy 911 CGAGGAGTCACTCGCGGCTACGCGCACATCACGSCGCGCTTCGCAACGCGCCAGAT 970
Db |||||
Qy 3165 CGTGGCGGCCCTTAAGCTCGCCCGCGCGGAGGCGCACCCCGTCTGTCGCGCTCAC 3224
Db |||||
Qy 971 GGCCTCAAGCAGCGCATGTTCGACCATGTTCGACGAGTCTCTCGGCGGATGCCCTGCC 1030
Db |||||
Qy 3225 CGGCGCCGCTCGCGCGCGCGACCTGCTCTGCTCGACGAGGCGCGCGACGCGCGC 3284
Db |||||
Qy 1031 GACCGCAGCAGCTGGGACGCTCAGGATCGGCTCAGAGATCGCGGGGAGGGGAA 1090
Db |||||
Qy 3285 CTCGTGAAGCAGCAGGACACGACGCAAGATCTCTTGCCTGCGGCTGCCCGCGCGCGC 3344
Db |||||
Qy 1091 GCGCCAGCGCCAAAGATCGACAGCTGAAGCGGAGTTCGCGGCTTGGCGCGCGCGC 1150
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Qy 3345 CGAACTGCCCGCGACAGCGCCCGGAGCGGCTTCAAGTGGGCGCTCACCGGCTCGACGA 3404
Db |||||
Qy 1151 CCAGCCCGCGCCCAAGGCTTCGCCAGCCAGCCAGCCCGCGCGCGCGGCGAGCGCCCC 1210
Db |||||
Qy 3405 CCGGTCTCTGGCGGCTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC 3464
Db |||||
Qy 1211 GCGGGAGC 1270
Db |||||
Qy 3465 CTTGGCGGAACGCTGGGCTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC 3524
Db |||||
Qy 1271 CACCGCGCAGTGTGCGCGCGCGCGCTCCATCGCCACGAGGAGAGTGCCTGTCCCA 1330
Db |||||
Qy 3525 AGAACCGTCCCGCGCTCTCTCTGGAGATCATGTCCCGTGGCTGTACCTCGGAG 3584
Db |||||
Qy 1331 TTCCGATCGACATCCGGCGCGGACAGCTGACCGAGGAGATCTGAGGTACAGCGCGCAAG 1390
Db |||||
Qy 3585 TCCGTGACCGAGGCGCACCCGACAAAGATCGCGGACGATCAGTGACACGCTCTCGA- 3643
Db |||||
Qy 1391 CTCGGGAGGATGACGAGAACTGTCAAGGCGGACGACGATCGACAGGCGTCAACCCC 1450
Db |||||
Qy 3644 --CGCCCTGCTCGCGGAGGACCCCGCTCAGCGCTCGCGGTGAGACCTGATCACCAC 3701
Db |||||
Qy 1451 AAGGACGTCGTCACCGCGGAGGACAGTGTCTCTACCGTACCGCGCGCGCGCGAG 1510
Db |||||
Qy 3702 ---GGCAGGTCACATCGCCGGGAGGTACACCAAGGCGTACGCGCCATCGCCCA 3758
Db |||||
Qy 1511 GTGGGACCCAGACGATCCCGTCTGTGATCGTCTACGCCCTCGTCAATGGGCCCTACATG 1570
Db |||||
Qy 3759 CTGGTCGCGGACACGATCTGGCCATCGGCTACGACTCGTCCGCCAAGGGCTTCGACGCG 3818
Db |||||
Qy 1571 ACCGACATCCAGGAGATCGCTCGAGATCAAGGGCTGCTGCCACCGGTGAGAGCTC 1630
Db |||||
Qy 3819 GCGCTCGCGGCTCTCGCTCTCCATCGCGCGGAGTCCCGGACATCGCCAGGGCGTTC 3878
Db |||||
Qy 1631 TATCTGATCGACTGGGCTTACCGGATCAGGCGGACCGGCGCTGACGCTCGATGACTAC 1690
Db |||||
Qy 3879 GACAGGCTTACGACCGCGCTGAGGGCGAGGAGGACGAG-----CTGACGAGGAG 3932
Db |||||
Qy 1691 ATCAAAGGCTACATCGACCGCTCGCTCGACTACCTGCGGAGACCCAGCGGCTGACCCAG 1750
Db |||||
Qy 3933 GCGCGCGGCGACAGGCGCTGATGTTGGCTAGCGCACCGGACCGGCTCGCTGATG 3992
Db |||||
Qy 1751 GTCAACTGCTCGGATCTGCCAGGCGGGGCGCTTACGCTCTGTCTACAGGCCCTGAC 1810
Db |||||
Qy 3993 CCGCTGCCCATCGAGTCCGACCGCTCTCGCGCGGCTCACCGAGGTCCGCGAAGGAC 4052
Db |||||
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RESULT 14

US-08-458-568A-11/c

; Sequence 11, Application US/08458568A

; Patent No. 5621339

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(without alignments)
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	86.2	3.0	1680	10	US-09-820-721A-2
6	85	3.0	4257	9	US-09-825-288A-1
7	84.2	3.0	1248	9	US-09-860-846-7
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17	74	2.6	13842	9	US-09-860-846-30
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20	74	2.6	36778	10	US-09-861-289-5	Sequence 5, Appli
21	73.4	2.6	13613	9	US-09-860-846-3	Sequence 3, Appli
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23	73	2.6	2334	10	US-09-476-242-7	Sequence 7, Appli
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26	72.6	2.5	1518	9	US-09-934-060A-29	Sequence 29, Appl
27	72.6	2.5	1518	9	US-09-950-335A-21	Sequence 21, Appl
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37	70	2.5	2541	10	US-09-476-242-11	Sequence 11, Appl
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42	69.6	2.4	2139	9	US-09-364-847-48	Sequence 48, Appl
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ALIGNMENTS

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; Sequence 1, Application US/09779427
; Patent No. US20010031489A1
; GENERAL INFORMATION:
; APPLICANT: STEINBUCHER, Alexander
; APPLICANT: LIEBERGSELL, Matthias
; APPLICANT: VALENTIN, Henry
; APPLICANT: PRIES, Andreas
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic fatty acids, and recomb
; TITLE OF INVENTION: bacterial strains for carrying out the process
; FILE REFERENCE: MOBT:152-2 - 11899.0152.DVUS01
; CURRENT APPLICATION NUMBER: US/09/779,427
; CURRENT FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: US 09/420,119
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US 08/809,286
; PRIOR FILING DATE: 1997-07-03
; PRIOR APPLICATION NUMBER: WO 96/08566
; PRIOR FILING DATE: 1995-09-15
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2849
; TYPE: DNA
; ORGANISM: Thiocapsa pfennigii
US-09-779-427-1

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RESULT 2
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; Sequence 3, Application US/09860846
; Patent No. US2002016472A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438U1
; CURRENT APPLICATION NUMBER: US/09/860,846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 13613
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-860-846-3
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Best Local Similarity 45.7%; Pred. No. 1.5e-10;
Matches 653; Conservative 0; Mismatches 745; Indels 31; Gaps 7;
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QY 1891 CCAGAACGTCGACGCTGCGGCTGACACCATGATGCGCAACATCCCGGGCGAACTGT 1950
DB 12212 CCACAACTTCGCTGCGGCGGACGCGCGGCGGACCAACGCGCAAGAT 12153
QY 1951 CAACTGGACCTTCCTGCTCAAGCTTTCAGCTGACCGGCGGAGAGTACGTCAACAT 2010
DB 12152 GAGCGAGCGCGCGGCTGAGGCTCACTCTCGACGCGCTTCCGAGGTATCGA 12093
QY 2011 GGTGACCTGCTGACGAGGAGCAAGGTCAAGAACTTCTGCGGATGGAGAGTGGAT 2070
DB 12092 CCGGAACCGGCGCAACCGCGCTTACCGGAGACCTTCGCGGACCTCCCGGCGTCT 12033
QY 2071 CTTTCACAGCGCGGACGCGGCGGAGACCTTCGCGCAGT--TCATCAAGAGACTTCTA 2127
DB 12032 CGTTCGCGACACGACGCGGCGGCTCAACAAACACGATGATGCTCGAGATCGA 11973
QY 2128 CCAGCGCAACGCTTCATCAACGCGGCTCTGATCGGCGATCAGGAGGTGCA---CCT 2184
DB 11972 CGAGGCAACACCGGCTCAACCGGCTCTGATGAGGTCTCTGAAGGCGGAGGCT 11913
QY 2185 GCGCAACATCCGCTGCGCGGCTCTGAAATCTACCGGATGAGGACCACTGTCGCGC 2244
DB 11912 GCACACCGCGGCTTCTTCGCGGCTGCGGAGCTGAGGCGCTACCGGCGGAGCC 11853
QY 2245 GGATGCTTCAAGGCGCTTCGCGGAGTGAACCTTCAGCGAGGACTACACGAGCTCGCTT 2304
DB 11852 GCACGCGCGCTGCGGACACCGGAGCGCTCGCGCGGCGGTGCTGCTCCTCGCGACCG 11793
QY 2305 CCGCGCGGCGCATTCGCGATCTACGTCAGCGGCAAGGCGGAGGAGTCAACCCCGC 2364
DB 11792 CACCGCATTCGCGGACGACATCGCGGCTGCGGAGCTGCTGCGTCTCTGCGCGAC 11733
QY 2365 GATCGCGCTGCTGAGAACGCGGCTGAGCGGCTGACCCCGGCTCGACCGGCTCGACGGG 2424
DB 11732 CGCGGCGCGGAACTGACCGCGGCTGCGGACGCGCGCGCGCGCGCGCTCG--CGGCG 11675
QY 2425 CGGCGCGGCGCATCAAGGCGCGCGGCGGCGGCTGAGGCTATCGGCGCTGCGGCG 2484
DB 11674 CCGGAGATCATCCGCGCGGCTGAGCTGCGGATGA--CGCGCGCGCGCTTTCGCG 11616
QY 2485 CGCGCGCGGCTTTCGCGCGCGGCTGCGGCTGCGCGCGGCTGCGGCTGCGGCTGCGGCT 2544
DB 11615 ACCGCGCGCGGCGGAGCTGCGCGGCTGCGGAGCGGCTGCGGCGCGGCTGCGGCT 11558
QY 2545 CTTTCGCGAGCGCGCGGCTGCTCAACGAGGCTGCTGAGGCGCGGCTGCGGCTGCGGCT 2604

Db 11557 --CCGTGCGCCAGACCTCGCGCGCGCGCTGTGTCGCCCGCAGAGGCGGAAACGAC 11500
Qy 2605 GGCCTGCTACGACGCGCTGCGCGAGACCTTACGACGCCACCGCGGCTCTTCGACATGGG 2664
Db 11499 CGCGCGCCACCTCGTCCGCGCTCGCGTGGCTAGGCAACAGCCCTTCAACCCGCTGGA 11440
Qy 2665 CGCGTGTCTGAGGACATCTTGCCTGCGCTGCGGCTGCGGCTGCGGACCTCTCTGACCTCGG 2724
Db 11439 GGAGGCGCGCCACGACCTGGGCGTGCACCGGAGCGCTTTCGCGCGCTCTCTGCGCTGTT 11380
Qy 2725 CTGCGCGCGCGGAGCGCTGCGCGCGCGCTTCTCTGACCGCGGCTGG 2773
Db 11379 CGGCGAGTCCCGAGCTCCGACCGCGTTCGAGACCGCGCGCGCGG 11331

RESULT 3

US-09-861-289-3/c
; Sequence 3, Application US/09861289
; Patent No. US20020110897A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/861,289
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 13613
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-861-289-3

Query Match 3.7%; Score 105; DB 10; Length 13613;
Best Local Similarity 45.7%; Pred. No. 1.5e-10;
Matches 653; Conservative 0; Mismatches 745; Indels 31; Gaps 7;

Qy 1351 CGACAAAGCTGACGAGGAGATGCTGAGTACAGCCGCAAGCTCGCGAGGGTATGCAGAA 1410
Db 12734 CGCGCCGCTCGTCCGCGAGTTGAGAGCGCGTCCGCGGCTCGCGGCGTCCGCGATCG 12675
Qy 1411 CTGCTCAAGCGCGACCATCGACACAGCGCTACCCCAAGGAGCTGCTCCACGCGGA 1470
Db 12674 CGTGGCCACTCGAACGCGACGCGCGGCTCCAGTCTCTCGCGCACGCGCGGCTCAC 12615
Qy 1471 GGACAAAGCTGGTCTCTACCGCTACCGCGCGCGCGAGGTGGCGACCCGACGATCCC 1530
Db 12614 CGCGGAGTGATGCTGCTGATGAGTTCGCGGCACCCGCGAGCTGCGTGGAT 12555
Qy 1531 GTGCTGATGCTTACGCGCTCTGTAATCGGCTTACATGACGACATCCAGGAGGATCG 1590
Db 12554 CGGCTTCAACCGCGCTTTCGCGACATGACCCGAGACCGGCAACCTCGACCCGAGCA 12495
Qy 1591 CTGAGGATCAAGGCGCTGCTGCCACCGGTGAGGACGCTATCTGATGATGCTGGGCTA 1650
Db 12494 GTGCGCGCGCGGCTCACACCCGCGACCTCGGCGGCTCCAGCTCTGGGCGG 12435
Qy 1651 CCGGATAGGCGCGCGGCGTGAACCTCTGATGACTACATCAACGGGTATACGACCG 1710
Db 12434 CCGCTGCGCGCGCGACGCTGGGAGGTGCGGAGGAGGCGCTGCGGCTGACTT 12375
Qy 1711 CTGCTGCTGACTTACGCGGAGACCCACCGCGCTGACAGGTCAACCTCTCGGATCTG 1770
Db 12374 CGACGCGCGCGACG-----CCCTGCTGCGCGTTCGAGCGCGCGCGCGCGCGAG 12324
Qy 1771 CCAGGCGCGGCTTACGCTCTGCTACAGCGCTGCTGCTGAGAGGTCAAAAACCT 1830
Db 12323 CCTCGCGAGCGCGGAGGTCTTACGCTTCCACGCCACCAAGGCGGTCAACGCTTCGAGGG 12264

RESULT 4

US-09-976-059-1
; Sequence 1, Application US/09976059
; Patent No. US2002016474A1
; GENERAL INFORMATION:
; APPLICANT: Farnet, Chris
; APPLICANT: Zazopoulos, Emmanuel

Qy 1831 CGTCAACATGCTACGCGCGGTGCTTCCAGACCCCGGCAACCTGCTCTCGGCTGGGT 1890
Db 12263 CGCGCGCTGCTACCGAGCAGCGCGCTCGCGCGCGGATCC-----GCGCCT 12213
Qy 1891 CCAGAACGTGACGCTGACCTGCGGCTGCGACCATGGCAACATCCCGGGGCACTGCT 1950
Db 12212 CCACAACTTCGGCTTCGACCTGCGCGGCGAGCGCGCGGCGGACCAACGCGCAAGT 12153
Qy 1951 CAACTGGACCTTCTGCTCGCTCAAGCCCTTCAAGCTGACCGCGCGCAGAAAGTACGTC 2010
Db 12152 GAGCAGGCGCGCGCGCATGCGGCTCACCTCTCGACGGTTTCCGAGGTATCGA 12093
Qy 2011 GGTGACCTGCTCGACGACGAGGCAAGGTCAAGAACTTCTCGGATGGAAGAGTGGAT 2070
Db 12092 CCGAAACCGCGCAACACGCGCTTACCGGAGCACCTCGCGGACCTCCCGGCGTCT 12033
Qy 2071 CTTGACAGCGCGGACAGGCGCGGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 2127
Db 12032 CGTCCCGACACGACCGCCACGCGCTCAACAAACACCACTGATGATCGTGAATCGA 11973
Qy 2128 CCAGCGCAACGCTTCAATCAACGCGCGCTCTGATCGCGATCAGGAGGTGCA---CCT 2184
Db 11972 CGAGCCACACCGCATCCACCGGACCTCGTATGAGGTCTTGAAGGCGGAAAGGCT 11913
Qy 2185 GCGCAACATCCGCTCGCGGCTCTGAACATCTACCCGATGAGGACCACTTGGTGCGGCC 2244
Db 11912 GCACACCGCGCTTCTTCGCGGCTGCGACGAGTGGAGCGTACCGCGGCGAGCC 11853
Qy 2245 GGATGCTTCAAGGCGCTCGCGGAGTACCTCCAGCGAGGACTACAGGAGCTCGCTT 2304
Db 11852 GCACGCGCGCTGCGCACACCGCAACGCTCGCGCGCGTGTGTCTCTCGCGACCG 11793
Qy 2305 CCCGCGGCGCACATCGGCATCTAGCTCAGCGCAAGCGCGAGGAGTCAACCCCGC 2364
Db 11792 CACCGCATCGCGACGAGACATCCGCGGCTCGCGACCTGCTGCTGCTGCGGAC 11733
Qy 2365 GATCGCGCTGGCTGAACGAAACGCGGTGAGCCGGGTGACCCACCGCTCGAGCGGCG 2424
Db 11732 CGCGCGCGCGAATGACCGCGCGCACCGCACACGCGCGCGCGCGCTCG--CGGCC 11675
Qy 2425 CGCGCGGCGCATGAAAGCGCGCGCGCGCGCGCATAGCATCCCGCGCGCTGGCGCC 2484
Db 11674 CCCAGACATCACGCCACGATTTGAGCTCCGATGA-CGCGCGCGCGCGCTTTTCGCC 11616
Qy 2485 CGCGCGCGCTTTCGCGCGCGCACCGCATCGCGCGCGCTGGCGTACAACTGACGCT 2544
Db 11615 ACCGCGCGCGGCGAAGCTGCGGACCCCGAGCGGATCTGGGGGCGGCGTCCAG-- 11558
Qy 2545 CTTGCGAGCGAGCGCGCGCATCTGTAACGAGGCTGCAATGGGCGCGCGACCACTGCT 2604
Db 11557 --CGTCCGCGCAGACCTTCGCGCGCGCGCTCGTCCGCGCGCGCGCGGAGCGAC 11500
Qy 2605 GCGCGCGTACGAGCGCTGCGCGAGACCTAGCGCGCGCGCGCGCGCTTTCGACATCGG 2664
Db 11499 CGCGCGCACCTCGTTCGCGCTCGCGCTGCGCTGAGGCAACAGCGCTTCAACCGCGCT 11440
Qy 2665 CGCGTGTCTGAGGACATCTTCGCGCGCTCGCGCGCTCGCGCGCGCTCTCGACTCGG 2724
Db 11439 GGAGCGCGCGCGACGCTTGGGCGTGCACCGGAGCGCTTTCGCGCGCTCTCTCGCGCT 11380
Qy 2725 CTGCGCGCGCGGAGCGCTGCGCGCGCGCTTCTCTGACCGCGGCTGG 2773
Db 11379 CGGCGAGTCCCGAGCTCCGACCGCGGTTCGAGACCGCGCGCGCGCGG 11331

Db 55199 GTCTGTGCTCTCCCGACCTCTGCGGTGACCGCGAAGCGCAAGCTCGACCGCAAGGCGGTG 55258
Qy 1245 ACCCGCCGCAAGACCAACAAAGCCACCAACCGGCCAG-----TGATGTGGCGCGCCGTCC 1299
Db 55259 CCGGACCCGACTACGGCGCGCTCTCCGCGCGCGGACCGCGCGAGCGCGAGGCG 55318
Qy 1300 ATGCGCACAGAGAGAGTGCGGTGTCCTTCCGATTCGACATCCGCGCCCGCAAGCT 1359
Db 55319 CTCTATGCG-GGGGTGTTCCGCGAGACGCTCGCGGTGACCGAGTCCGAGCGGATGCCGA 55377
Qy 1360 GACCGAGGAGATCTGGAGTACAGCGCAAGCTCGCGGAGGATATGCAAGACCTCTCAA 1419
Db 55378 CTTCTTGGCCCTGGCGGCGCAATTCGTGTGCGCGGTGCTGCGTGAACGTTGCGCGA 55437
Qy 1420 GCGCGACAGATCGACACAGGCGGTCAACCCCAAGACGTCGTCCACCGCGAGGCAAGCT 1479
Db 55438 GCACGGCATCGCGGTTCGGTTCGGCGCCCTGTTCAGTCCGGGACACCCCGAGGCTTGGC 55497
Qy 1480 GGTCTCTTACCGCTACCGCGCGCGCGGCGAGGTGGGACCCAGACATCCCGCTGCTGAT 1539
Db 55498 CGCGCGCGCGCGCGCGAGGCGCGGACGAGCGCGCGTCCGCGGCAACCGGCATCCCGA 55557
Qy 1540 CGTCTACGCGCTCTGATCGCGCCCTACATGACCGACATCCAGGAGGATCGCTGACGAT 1599
Db 55558 CGCGCGCACCGCGCTACCGCGCGGATGCTCACCTCTGTCGACCTCGACCGCGAGGAT 55617
Qy 1600 CAAGGCGCTCTCGCCACCGGTGAGGACGCTCTATCTGATCGACTGGGGTACCCGGATCA 1659
Db 55618 CGCGCGGTGCTCGCGCGCTCGCGCGCGCGCGCGGCGGCGGAGCTTATCCGCT 55677
Qy 1660 GCGCGACCGCGCGGTGACCTCGATGATATCAATCAACGGCTATCATCGACCGTGGTGA 1719
Db 55678 CGCGCGCTGACGAGGCGGTGCTCTTCCACAGCTGATGAGCGCGCGGACGATGTA 55737
Qy 1720 CTACTGCGGAGACCCAGCGGTGACACAGTCAACTGCTCGGGATTCGCCAGGCGG 1779
Db 55738 CTTGTTCGCGCGCGCTCTCGGATTCGATTCGCGGTCCCGCTCGACGCGGTTCCTGGCGCG 55797
Qy 1780 G-----GCTTTCAGCTCTGTCTACAGCGCTGACCTCGGAGAGGTCAAAAACCTGT 1833
Db 55798 GTTGCAACAGTGTGACCGGCAAGACGTTACCGGACCGGCTGGTGACAGCGGCT 55857
Qy 1834 CACCATGTGACCGCGGTGCACTTCAGACCCCGGCGCAACCTGCTCTCGCGCTGGGTGCA 1893
Db 55858 GCGCGAGCGGTGCAAGTGTCTGCGCGCGCGCGCGCGCTGCGCGGTGACCGCT 55917
Qy 1894 GAACTGAGCTGCACTGCGCGGTGACACATGCGGCAATCCCGGCGCACTGCTCA 1953
Db 55918 GACCGCGCGCGCGCGCGCGGTGCGGAACTGCTGCGCCACCGCGCGGTGCGGTGCGCGT 55977
Qy 1954 CTGGACCTTCTCTGCTCAAGCGCTTACGCTGACCGCGCGGAGAGTACGTCAACATGT 2013
Db 55978 CGACCGGCGCGCTGCTGCGGTGCGCTGCGCGCGCGCGCGCGCGCGGCGGATGGCT 56037
Qy 2014 CGACTGCTGACAGGAGGCAAGGTCAAGAACTTCTGCGGATGGAGAACTGATCTT 2073
Db 56038 GCGCGTGTCTCCAGATCCACCACTGCTGCGGACCAACCGCGCGCTCGACCGGATGCTCG 56097
Qy 2074 CGACAGCGCGGACCGCGCGGAGACCTTCCGCGATTCATCAAGGATTTTACAGCG 2133
Db 56098 CGAGATCCAGGCGCTTCTCTCGCGCGCGCGCGCGCGGCTGCGCGCGCGCGCGCGCTT 56154
Qy 2134 CAACGCTTTCATCAACCGCGCGGTCTGATCGCGGATCAGGAGTTCGACTGCGCAACAT 2193
Db 56155 CGCGGCTACGTGCGCGCGCGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGGCTACTT 56214
Qy 2194 CCGCTGCCCGGTCTTAACATCTACCCGATGAGGACCACTTGGTCCCGCGGATGCTTC 2253
Db 56215 CTTCCGCGTGTCTGCTGAGCTCACCGAGAGCACCGCGCGGTGCTGACCGAGCGCG 56274
Qy 2254 CAAAGCCCTCGG---GGACTGACCTCAGCGAGGACTACAGGAGCTGCTTCCCGG 2310
Db 56275 GGACCGCGCGCGGACCGGAAAGGCCCATCGCGAGGTTCGACCGCGCGCTGCGCGCGCGT 56334

Qy 2311 CGGGACATCGGCATCTACGTACGCGCAAGCGCGAGGAAGTCAACCCGCGGATCGG 2370
Db 56335 CCGGCGCAAGCGGAGCGAGCTGGCGTGAGCCGCGACCGCTGTTCATCTCGCTGCGC 56394
Qy 2371 CCGTGGCTGAACGAACGCGGCTGAGCGGCTGACCCACCGCTCGACGGCGCGGCGG 2430
Db 56395 CCGGCTGTGCGC---ACGCTTGGCGCGCGACGACGCTGCTTTCGGCACCGTCTGCTG 56452
Qy 2431 CCGGCATCAAGGCGCGCGCGCGCATGAGCATCCCGCGCGCTGGCGCGCGCGCC 2490
Db 56453 GACCGCTCGCGCGCGCGCGCTCGGGGAGCCCTCGGC-----CCGTTTCATCAACAC 56508
Qy 2491 CCGACCTTTCGCGCGCGCACCGCATCGCCCGCGGCTGGCGTACAATGACGCTTTCG 2550
Db 56509 CTTGCGGTGCGGTGCGCTCGCGCGCGCGCGAGCGCTGGCGCGGCTGCG 56568
Qy 2551 GAGCGAGCGCGCTGCTCAACGAGGCTGATGGGCGCGCACCACTGCTGGCGCG 2610
Db 56569 CGCCAGCTGCGCGAGCTGATCGGTACAGCAACCGCGCGCTGACGCTGGCACAGGCGC 56628
Qy 2611 GTACGACGCTGCGCGGAGCTACGACCGCACCGCGCGCTTTCGACATGCGCGCGCT 2670
Db 56629 GAGCGGTGCGCGGCGGAGCGCGCTTTCACCTCGATCTCACTACCGCGCGGCGC 56688
Qy 2671 GCTGAGGACATCTTTCGCGCGCTGCGCGCTGCGGCACTCTTCGACCTCGGCTGCG 2730
Db 56689 GCGCGCGCGGACGACACCGCGCGAGAGATCGAGGCTCGAGCTGCTTCCACCGA 56748
Qy 2731 CGCGGGGAGCGCTGCGCGCGCTTCTCGACCGCGGCTGGCGGCTGACCGGCTGGA 2790
Db 56749 GGAACGACGAACTACCGGCTGCGCGCTTCCGTCGACGACGAGCTTTCGCGCT 56808
Qy 2791 CTTGTCGCGCGCATGCTGCGCGCGCTGCTACGTCGCCGAGATGGAGCGGATC 2848
Db 56809 CACGTCGACGCGCGCGAGCGCGCGGCGGACCGGCTCGCGGCTGCTGCAACCC 56866

RESULT 5

US-09-820-721A-2

; Sequence 2, Application US/09820721A

; Patent No. US2002098565A1

; GENERAL INFORMATION:

; APPLICANT: Canon INC.

; TITLE OF INVENTION: Polyhydroxyalkanoate synthase and gene encoding the same

; FILE REFERENCE: 4051022

; CURRENT APPLICATION NUMBER: US/09/820,721A

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 10

; SEQ ID NO 2

; LENGTH: 1680

; TYPE: DNA

; ORGANISM: Pseudomonas putida P91

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (1)...(1680)

; OTHER INFORMATION: Polyhydroxyalkanoate synthase encoding sequence

US-09-820-721A-2

Query March 3.0%; Score 86.2; DB 10; Length 1680;

Best Local Similarity 46.0%; Pred. No. 3.2e-07;

Matches 449; Conservative 0; Mismatches 513; Indels 15; Gaps 4;

Qy 1356 AGCTGACCGAGAGATGCTGGAGTACAGCCGCAAGCTCGGCGAGGATGACAGACCTTGC 1415

Db 482 ACCTGGCCAAAGACATGTCCACACGGCGGATGCCAGCCAGGTCAACATGGAGCTT 541

Qy 1416 TCAAGCGCGACAGATCGACACAGGCGTCAACCCCAAGAGCGTCTCCACCGCGAGGACA 1475

Db 542 TCGAGGTGGCAAGA---ACCTTGGCCACCAACCGAGGCGCGTGTGTTTTCGCAACGAGC 598

Qy 1476 AGCTGGTCTCTACCGCTACCGGCGCGCGCGGCGAGGTGGCGACCCGAGCATCCCGCTGC 1535

Db 599 TGCTGGAGCTGATCAGTACCGCCCGATCACCGAGCAGGTGCACGAAAGCCGCTGCTGG 658
Qy 1536 TGATCGTCTACGCCCTCGTCAATCGGCCCTCATACACCGACATCCAGGAGGATCGCTCGA 1595
Db 659 TGGTACCGCCGAGATCAACAGTTCTAGCTTTCGACCTCAGCCCGGAAAGAGCCTGG 718
Qy 1596 CGATCAAGGGCTGCTCGCCACCGGTGAGGAGCTTATCTGATCAGTGGGCTACCCGG 1655
Db 719 CCGCTTCTGCTCGCTGCTCCAGCGGTGCAACCTTCATCGTGA--GCTGGCGCAACCCCA 775
Qy 1656 ATCAGCGGACCGCGGCTGACCCCTCGATGACTATACAAAGGCTTACATCGACCGCTGCG 1715
Db 776 ACAAGTCCAGCGGAGTGGGCTGTGACCTATCATGATCGCTCAAGGA--GGCGG 832
Qy 1716 TCGACTACTGCGGAGACCCACCGCGTGCACAGGTCAACCTGTCTGGGATCTGCCAGG 1775
Db 833 TCGAGCTGTGTGTCATACACCGGAGCAAGGACTGAACCTGCTCGGTGCTGCTCGG 892
Qy 1776 GCGGGGCTTACGCTCTGTATACAGCGGCTGCACTCCGAGAGGTCAAAACCTCTGCA 1835
Db 893 GCGGATCACCTGCAACCGGCTGTGGGCTACTACGCGCACTGGGCGAGAGAGGTCA 952
Qy 1836 CCATGCTCAGCGGCTGCACTTCCAGACCCCGGGCAACTGTCTCGGCTGGGTCCAGA 1895
Db 953 ATGCCCTGACCTGTGTGAGCGTGTGACACCACTCTGACACCCAGGTGGGCTGT 1012
Qy 1896 ACGTCAGCTGCACTGCGGCTGCAACCATGGGCAACATCCCGGGCAACTGCTCAACT 1955
Db 1013 TCGTCGAGGAGCAGACCTGGAGTGGGCAAGCCATTCTTACCAGGCGGTGCTCG 1072
Qy 1956 GGACCTTCTGCTGCTCAAGCCCTTACGCTGACCGGCGGAGAGTCAAGTCAACATGGTGG 2015
Db 1073 AAGGCGGACATGCGCAAGGTGTTCGCTGGAATGCGGCCCAACAGACCTGATCTGGA 1132
Qy 2016 ACTGCTCAGCAGCAGGACAAAGGTCAAGACTTCTCGGGATGGAGA-----AGTGA 2069
Db 1133 ACTGGTCAACAACTACTCTGCGCAAGAGCCCGGTTTCGACATCTCTGTTCTGA 1192
Qy 2070 TCTTCAGACGCCGACGAGCCGCGAGACCTTCGCGCAGTTTATCAAGGACTTCTACC 2129
Db 1193 ACAAGCATCAGCGCTGCGCCGCGCTTCCAGCGGACCTGATCGAAATGTTCAAGA 1252
Qy 2130 AGCGAACGGCTTCATCAACGCGCGGCTCTGATCGGCGATCAGAGGTGACCTGCGGA 2189
Db 1253 ACAACCGCTGCTGCTGCTGCTGCACTGGAAGTGTGGCGCAACCGGATCGACCTGAGCC 1312
Qy 2190 ACATCGCTGCGCGTCTGGAACATCTACCGATGCAAGACCACTGCTGCGCGGATG 2249
Db 1313 AGGTACCAACGACATCTTACGCTGGCGGCAACCAAGATCACAATCACCATGGAAGT 1372
Qy 2250 CTTCAAGGCCCTCGCGGACTGACCTCCAGCGAGGACTTACAGGAGCTCGCCTTCCCGG 2309
Db 1373 CTGCTCAAGTCGCGCAGCTGTTTCGGCGGCAAGGTTCGAGTTCCTGCTGCTCCACAGG 1432
Qy 2310 GCGGCAATCGGCATC 2326
Db 1433 GGCATATCCAGAGCATC 1449

RESULT 6

US-09-825-288A-1
; Sequence 1, Application US/09825288A
; Publication No. US20020192822A1
; GENERAL INFORMATION:
; APPLICANT: LEOPARDI, ROSARIO
; APPLICANT: ROIZMAN, BERNARD
; FILE OF INVENTION: HERPES SIMPLEX VIRUS ICP4 IS AN INHIBITOR OF APOPTOSIS
; TITLE REFERENCE: ARCD:317USC1
; CURRENT APPLICATION NUMBER: US/09/825,288A
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/259,821
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: 08/690,473

; PRIOR FILING DATE: 1996-07-26
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4257
; TYPE: DNA
; ORGANISM: HERPES VIRUS, TYPE 1
US-09-825-288A-1

Query Match 3.0%; Score 85; DB 9; Length 4257;

Best Local Similarity 41.9%; Pred. No. 5.7e-07;
Matches 712; Conservative 0; Mismatches 975; Indels 12; Gaps 3;

Qy 1132 CGGCTTTGGCGGCGGCCCGCCAGCCCGCGCCAGGCTCTCGCCCGCAGCCCGCAGC 1191
Db 1293 CAGCGGGAGCGTGGCGCGCGCGCCCGCCCGCGCGCGGCGGTCTGTACGGCGG 1352
Qy 1192 CCGCGCGGCGACCGCCCGCGCGGCGGCGGCCCAAGCGACGACCGCCCGC 1251
Db 1353 CTTGGGCGACAGCCCGCCCGGCGCTTGGGGGCGCGCGAGGCGGCGACGCGC 1412
Qy 1252 GCAAGACCAACAAGCCCAACCGCCAGTGTGCGGCCCGCCCGCTCCATCGCCAC 1311
Db 1413 GTTCGAGGCTTCGGGCGCCCGCGCGCGCTGTGGGCGCCGAGCTGGGCGACCG 1472
Qy 1312 AGAGAGTCCGCTGTCCCATTTCCCGATCGACATCCGGCCCGACAAAGCTGACCGAGAGAT 1371
Db 1473 GCAGTACGCCCTGATACCGCGCTGTGTACACCCCGGACGCGAGGCGCATGGGTGGCT 1532
Qy 1372 GCTGGAGTACAGCGCAAGCTCGGCGAGGCTATGCAACCTGCTCAAGGCGCGACAGAT 1431
Db 1533 CCAGAACCCGCGCGTGTGCTCCCGGGGACGTGGCGCTGGACGAGGCTCTCTTCCG 1592
Qy 1432 CGACACAGCGCTCACCCCAAGGACGTCTCACCGCGAGGACAAAGCTGGTCTCTACCG 1491
Db 1593 GGGCGCGCGGCGACAGCAGCTCTTATCACCGGAGGTGGCGCGGCGCGCTGCCCA 1652
Qy 1492 CTACCGGCGCGCGGCGAGGTGGCGACCCAGACGATCCCGCTGTGTGATCGTCTACGCCCT 1551
Db 1653 CTTGGGCTACGCCATGGCGCGCGCGCTTCTGGCTGGGCGCTGGCGCACCGCGCGCGC 1712
Qy 1552 GTCATACCGGCGCTTACATGACGACATCCAGAGGATCGCTCGACGATCAAGGGGCTGCT 1611
Db 1713 CTTGGGCTACGAGCGCGCGATACGACCGCGCGAGAGGCTTCTGCTGACCGAGCTGCG 1772
Qy 1612 CGCACCGGTGAGGACGCTTATCTGATCGACTGGGGCTACCGGATCAGGCGGACCGGCG 1671
Db 1773 CCGGCTTACCGGCCCTTGTGGGCGCGAGAACGCGGCGTACGCGGCGCGCGGAG 1832
Qy 1672 GCTGACCTTCGATGACTACATCAACGGCTTACATCGACCGCTGCGTCTGACTACCTGCGCGA 1731
Db 1833 CCGCGCGCGCGCGAGATGACGAGGGGTTCGCGCGCTGCGCGCGCGCGCACCGGCGA 1892
Qy 1732 GACCCAGCGGCTGACAGGTCACCTGCTCGGATCTGCGAGGCGGCGGCGCTTACGCT 1791
Db 1893 GCGCGGCTGCGCGCGGTTACGCGCGCGGATCTCTCGCGCGCTG---GGCGGT 1949
Qy 1792 CTGCTACACGCGCTTGCATCCGAGAGGTCAAAACCTCTGTCACCATGCTCACCGCGT 1851
Db 1950 GTCCGCGCGCGCTTCCCGCGGGGCGAGACGACCCCGACCGCGCGCGCGCGA 2009
Qy 1852 CGACTTTCAGACCCCGGCGCAACTGCTCTCGGCGCTGGGTCCAGAACGCTCGACGTCGACCT 1911
Db 2010 CGCGAGCAGCAGCGCGGCGCGCGCCAGCGCGCGCGCTGGCGCTCGAGTGGCTGGC 2069
Qy 1912 GCGCGTCAACACCTGAGCAACATCCCGGCGAACTGCTCAACTGGAACCTTCTCTGCT 1971
Db 2070 GCGCTGCGCGGGATCTCTGAGGCGCTTCCAGAGGCTTTCAGACGCGACCTTGGCGCGCT 2129
Qy 1972 CAAGCCCTTACGCTGACCGCGCAGAGTACGTCAACATGCTGACCTGCTCGACGCA 2031
Db 2130 CCGGGGCTGCTCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2189

Qy 2032 GGACAAAGTCAAGAACTTCCTCGCGATGAGAAAGTGGATCTTCGACAGCCCGGACCAAGC 2091
Db 2190 GCTTTCCCGCGCGCGCGACCG 2249
Qy 2092 CGCGAGACCTTCGCCAGTTCATCAAGACTTTCACAGGCAAGCGCTTCATCAACGG 2151
Db 2250 GCGTTCGTGCGGACGCGCTGCTCATGCGCTGCGCGGAGACCTGCGCGTGGCGCG 2309
Qy 2152 CGGCTCTGATCGCGGATCAGGAGGTGCACCTGGCGCAACATCCGCTGCGCGGTCTCGAA 2211
Db 2310 CGGACGAGCGCGCGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2369
Qy 2212 CATCTACCGGATGACGACACCTGGTGGCGCGGATGCTTCGAAGGCGCTTCGCGGACT 2271
Db 2370 CCCCGCTGCGCGGACCGCGCTGCGAGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2429
Qy 2272 GACCTCAGCGAGGACTACAGGAGTGCCTTCCCGCGGGGACATCGGCATCTAGT 2331
Db 2430 GCTGTTGACAAACAGAGCTGCGCGCGCTGCTGGCGCGCGCGCGCGCGCGCGCGCG 2489
Qy 2332 CAGCGGAAGCGCGAGGAGTCAACCCCGCGGATCGCGCTGGCTGAACGAACGCGG 2391
Db 2490 CGCGACGCGTGGCGCGCGCGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2549
Qy 2392 CTGAGCGCGGTGACCCACCGCTCGACGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2451
Db 2550 GAGTCCCG 2609
Qy 2452 CGGCGCCATGAGCCATCGCGCGCGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2511
Db 2610 GAGCGCGCGAGCGCGCGCGCGCTCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2669
Qy 2512 GCATCGCCCGCGCGCTGGCGTACAAATGACGCTCTTCGCGAGCGAGCGCGCGCATGTC 2571
Db 2670 CT-----CAAGCG 2724
Qy 2572 CGGAGGTGCAATGGCG 2631
Db 2725 GCGCGCGCGAGCG 2780
Qy 2632 CTACGACCGCGCGCGCGCGCTTCGACATGCGCGCGCTGCTCGAGGACATCTTCGCGCG 2691
Db 2781 CCCGACCG 2840
Qy 2692 CTGCGCGCGCTCGCGACCGCTCTCGACTCGCGCTGCGCGCGCGCGCGCGCGCGCGCG 2751
Db 2841 CGCGCGCGCGCGCTGAGGCGCTACTGCTCCCGCGCGCGCGCGCGCGCGCGCGCGCG 2900
Qy 2752 GCGCTTCGACCGCGCGTGGCGGTTGACCGGGGTGACCTTCGCGCGCGCGCGCGCGCG 2811
Db 2901 CCCGCTGTTCCCGTCCCTGGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2960
Qy 2812 CTGCGCGCGCGCTAGTCT 2830
Db 2961 GATCGCGCGCGGTGCGCG 2979

RESULT 7

US-09-860-846-7
; Sequence 7, Application US/09860846
; Patent No. US2002164742A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Zhao, Y.
; APPLICANT: Xue, Y.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/860.846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 1248
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-860-846-7

Query Match 3.0%; Score 84.2; DB 9; Length 1248;
Best Local Similarity 45.2%; Pred. No. 7.2e-07;
Matches 489; Conservative 0; Mismatches 568; Indels 24; Gaps 4;

Qy 1351 CGACAAAGTACCGAGGATGCTGGAGTACAGCGCAAGCTCGCGAGGGTATGCAGAA 1410
Db 150 CGGCCGCTCGTCCGCGAGTTCGAGGAGCGGTCCCGGGGTCGCGGGGTCCGCGATGC 209
Qy 1411 CCTGCTAAGCGCGACAGATCGACACAGGCGTCAACCCCAAGGACGCTGCTCCACCGGA 1470
Db 210 CGTGGCACCTGCAACGCCCGCGCGGCTCAGTCTCTCGCGACGCCCGGGCTTAC 269
Qy 1471 GGACAAAGTGTCTCTACCGCTACCGCGCGCGCGAGGTGGCGACCCAGACGATCCC 1530
Db 270 CGGCGAAGTATCATGCGTGCATGACGTTCCGCCACCCCGCACGCACTCGCTGGAT 329
Qy 1531 GCTGCTGATGCTCTAGCGCTTCGTAATCGGCGCTTACATGACCGACATCCAGGAGGATCG 1590
Db 330 CGGCTTCAACCCGCTTCTTCGCGGACATCGACCCGAGACACCGGCAACCTCGACCCGACCA 389
Qy 1591 CTCGACGATCAAGGCGCTGCTCGCCACCGGTTCAGACGCTCTATCTGATCGATGGGGCTA 1650
Db 390 GGTGGCGCGCGGTTCACACCCCGACCTCGGCGCTGCTCGGCGTCCACCTTGGGGCGG 449
Qy 1651 CCCGGATCAGCGCGACCGGGCGCTGACCTCGATGACTACATCAACGGCTACATCGACCG 1710
Db 450 CCCCTGCGCGCGCGACGCTGCGGAGGTTCGCCGAGCACGCGCTGCTACTT 509
Qy 1711 CTGGTTCGACTACTGCGCGAGACCCAGCGGTGACACAGGTCAACCTGCTCGGATCTG 1770
Db 510 CGAGCGCGCGCAC-----GCCCTCGGCTGCGGCTCGACGGCGCGCGCGCGCGAG 560
Qy 1771 CCAGGGGGGCGCTTCAGCCTTCGTACACGCGCTGCTGACCTCCGAGAGGTCATAAAGCT 1830
Db 561 CCTCGCGACCGCGAGGTCTTACGCTTCACGCCAACGAGCGCTCAACGCTTCGAGGG 620
Qy 1831 CGTCAACATGTCTACCGCGCTCGACTTTCAGACCCCGGGCAACCTGCTCTCGGCTGGGT 1890
Db 621 CGGCGCGTCTGCTACCGGACGACCGGCTTCGCGCGCGGATCC-----GCGCCT 671
Qy 1891 CCAGAACGTCGACGCTGACCTGGCGGTGACACCATGGGCAACATCCCGGGGGAAGTCT 1950
Db 672 CCACAACTTCGGCTTCGACCTGCGCGGCGAGCGCGCGCGCGCGGACCAACGCCAAGAT 731
Qy 1951 CAACCTGGACCTTCCTGCTCGCTCAAGCCCTTCAGCTGACCGCGCGAGAGTACGTCACAT 2010
Db 732 GAGCGAGGCGCGCGCGCTATGGGCTCACCTCCCTCGACGCGTTTCCCGAGGTCTATCGA 791
Qy 2011 GGTGACCTGCTCGACGAGGACAAAGGTCAAGAACTTCCTGCGGATGAGAGAGTGGAT 2070
Db 792 CCGNAACCGGCGCAACACGCGCGCTACCGGAGCACCTTCGCGGACCTCCCGCGGTCT 851
Qy 2071 CTTGACAGCGCGGACCGCGCGGCGGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 2127
Db 852 CGTGGCGGACCAACCGCGCGCGCTCAACAAACCCAGTACGTGATCGTCGATCGA 911
Qy 2128 CCAGGCAACGCGCTTCATCAACGCGCGCTGCTGATCGCGATCAGGAGTCTGA---CCT 2184
Db 912 CGAGCCACCGGATCCACCGGACCTCGTATGAGGCTCTGAAGGCGCGAGGCGT 971
Qy 2185 GCGCAACATCCGCTGCCCGGCTCTGAACATCTACCCGATGAGGAGACCACTGCTGCGCGC 2244
Db 972 GCACACCGCGCTTACTTCTCGCGGGTGCACAGCTGGAGCGGTACCGCGGCGAGCC 1031
Qy 2245 GGATGCTTCAAGGCGCTTCGCGGAGCTACCTTCAGCGAGGACTACAGGAGCTCGCTT 2304

Db 1032 GCACGCCCGCTGCCGACACCCAGAGCGCTCGCCGCGCGGTGTCTCTCCCTGCCACCGG 1091
Qy 2305 CCCCGCGGGACATCGCATCTACGTGAGCGGCAAGCGAGGAGTACACCCCGC 2364
Db 1092 CACGCCATCGCGGACGAGACATCCGCGGGTCCGACCTGCTGCGTCTCGCGCAC 1151
Qy 2365 GATCGCGCGTGGCTGAACGAGCGGCTGAGCGGGTGCACCCACCGCTCGACGGCG 2424
Db 1152 CCGCGCGCGGAGATGACCGCGCGCACCGGACACGCGCCCGCGCTCGCGGCCCC 1211
Qy 2425 C 2425
Db 1212 C 1212

RESULT 8
US-09-861-289-7
; Sequence 7, Application US/09861289
; Patent No. US20020110897A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/861,289
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 1248
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-861-289-7

Query Match 3.0%; Score 84.2; DB 10; Length 1248;
Best Local Similarity 45.2%; Pred. No. 7.2e-07;
Matches 489; Conservative 0; Mismatches 568; Indels 24; Gaps 4;

Qy 1351 CGACAGCTGACGAGGAGATGCTGGATACAGCCGCAAGCTCGCGGAGGGTATCGAGAA 1410
Db 150 CGGCCGCTGCTCGCGAGTTTCAGAGAGCGGTGTCGCGGGCTCGCGGGGTCCGCGATGC 209
Qy 1411 CCTGCTCAAGCGCGACAGATCGACAGGGGTACACCCCAAGGAGCTGCTCCACCGGA 1470
Db 210 GTGGCCACCTGCAACGCCACGGCCGGGTCCAGTCTCTCGCGCACCGCGCGCTCAC 269
Qy 1471 GGACAGCTGTCTCTACCGCTACCGCGCGCGCGCGAGGTGGCGACCCAGACGATCCC 1530
Db 270 CGGCAAGTGATGATGCGCTCGATGACGTTTCGCGCCACCCCGCAGCACTGCGGTGAT 329
Qy 1531 GCTGCTGATGCTTACGGCCTGCTCAATCGGCGCTTACATGACGACATCGACGAGATCG 1590
Db 330 CGGCTTACCCCGGTCTTCGCGGACATGACCCGCGACACCGGCAACCTCGACCCGAGCA 389
Qy 1591 CTCGACGATCAAGGCGCTGCTCGCCACCGGTGAGGACGCTTATCTGATGACTGGGGTA 1650
Db 390 GGTGCGCGCGGTGACACCCCGCACTTCGGCGCTGCGCGCTGCGGCTGCGGCGCG 449
Qy 1651 CCCGATCAGGCGCGCGCGCTGACCTCGATGACTACATCAACGGGTACATCGACCG 1710
Db 450 CCCCTGCGCGCGCGCGCTGCGGAGGTTCGCGGACGCGCGCTGCGGCTGCTACTT 509
Qy 1711 CTGCTGACTTACCTGCGGAGACCCAGGCTGCGGAGGTCAACCTGCTCGGGATCTG 1770
Db 510 CGACGCGCGCAC-----GCCCTGGGTGCGGTCGAGCGCGCGCGCGCGCGCGAG 560
Qy 1771 CCAGGCGGGGCTTCAGCTCTGTCTACACGGCTTGTACTCCGAGAGGTCAAAAACCT 1830
Db 561 CTTGCGGACGCGCGAGGTCTTCAGCTTCCAGCTTCCAGCCCAAGGCGCGTCAACGCGCTTCGAGG 620

Qy 1831 CGTCAACATGTGTACGCGGTGCTGACTTTCAGAGACCCCGGGCAACCTGCTCTCGGCTGGGT 1890
Db 621 CGGCGCGCTGCTCCGACGACGCGGACCTCGCGCGCGGATCC-----GCGCCCT 671
Qy 1891 CCAGAACGTTCGACGCTGACCTGGCGGTGACACCATGGCAACATCCCGGGGCAACTGCT 1950
Db 672 CCACAACTTCGCGCTTCGACCTGCGCGGAGCGCGCGCGGAGCAACGCGCAAGAT 731
Qy 1951 CAATGGACCTTCTGTCGCTCAAGCCCTTCAGCGCTGACCGCGCCAGAAAGTACGTCAACAT 2010
Db 732 GAGCGAGCGCGCGCGCATGGGCTTCACTCTCGACGCTTTCGCGAGGTTCATCGA 791
Qy 2011 GGTGACCTGCTCGACGAGGCAAGGTCAAGAACTTCCTCGGATGAGAGAGTGTAT 2070
Db 792 CCGAAACCGGCGCAACACGCGGCTTACCGGAGCACCTCGCGGACCTCCCGCGGCTCT 851
Qy 2071 CTTGACAGCGCGGACGAGCGCGGAGACCTTCGCGCAGT---TCATCAAGGACTTCTA 2127
Db 852 CGTCCGCGACACGACCGCGGCTTCAACCAACCCAGTACGTGATCTGTCGAGATCGA 911
Qy 2128 CCAGCGCAACCGGCTTCAACACGCGCGGTCTGATCGCGGATCAGGAGGTCTGA---CCT 2184
Db 912 CGAGCGCACACCGGCTTCCACCGGACCTGTCATGAGGTCTCTGAAGGCGCGAAGGCT 971
Qy 2185 GCGCAACATCGCTGCGCGGTCTTGAACATCTACCCGATGAGGAGCACTGCTGTCGCGC 2244
Db 972 GCACACCGCGCTTCTTCGCGGGTGCACGAGTGGAGCGGTACCGCGGCGAGCC 1031
Qy 2245 GGATGCTTCAAGCGCTTCGCGGAGTACCTCCAGCGAGGACTACAGGAGTCTGCTT 2304
Db 1032 GCACGCGCGTTCGCGCACACCGAACGCTTCGCGCGCGGTGCTGCTGCTGCTGCGG 1091
Qy 2305 CCGCGCGCGGACATCGGCTCTACGTGAGCGGCAAGCGGAGGAGTACACCCCGCGC 2364
Db 1092 CACCGCATCGCGGAGGAGATCCGCGGGTCCGCGACCTGCTGCTGCTGCGGAC 1151
Qy 2365 GATCGCGCGTGGTGAACGAGCGGTGAGCGGGTTCGACCCGCTGCGAGCGGCG 2424
Db 1152 CCGCGCGCGGAGATGACCGCGCGCACCGGAGACGCGCGCGCTCGCGCGCGCTCGCGGCGCC 1211
Qy 2425 C 2425
Db 1212 C 1212

RESULT 9
US-09-860-846-1
; Sequence 1, Application US/09860846
; Patent No. US20020164742A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/860,846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 15872
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
US-09-860-846-1

Query Match 2.9%; Score 84; DB 9; Length 15872;
Best Local Similarity 42.6%; Pred. No. 9.5e-07;
Matches 1034; Conservative 0; Mismatches 1355; Indels 37; Gaps 10;

Qy 360 CGCGACTTCATGGAGAGCTCGCCGAGCGAGGCAAGGCGCTTCTTCGGGCTCAGCGACTAC 419
Dy 3743 CGCGGCTCGCGCGCGAGCGGCGCTCCAAGGCTTCTCCGACTCGCGCGAGCGGCACTCC 3802
Qy 420 TTCAGAAAGGCGCTCGGCGGAGTAGCGGTACGAGGCTGGGACACCTCTCGAGACC 479
Dy 3803 TGGGCGAGGGCGTCCGGCTCTCTCGTCTCGAGCGGCTCTCGGACGCGAGCGCAACGCG 3862
Qy 480 ATCGACGACATGCAAAAGGCTTCGCCAGCGCGCGGATCGAAGGCGAGAGACCTTCGCG 539
Dy 3863 CACCCGCTCGCGCTGATCGGGGAGCGCGGTCAACAGAGCGGCGCTCCACAGGG 3922
Qy 540 CGCTGATGGCTTCCTGGAGATGCGCTCGAACAATGCGACGCAACCATGCTTCGCTG 599
Dy 3923 CTCACGCGCCCAACGCGCGCTCCAGCAGCGGCTATCCGACAGGCTTCGCGACGCC 3982
Qy 600 TCCCGGTGCGCGGAGCTGCTGCGCAACATGCGCGACAGCAAGTACGAGGACAGCGTC 659
Dy 3983 GGGCTACCCCGGCGCGCTCGACCGCTCGAGGCGCAAGGTACCGGTACCCGGCTCGGC 4042
Qy 660 GACCGCATCTCTCGGCACCCGGGCTCGGCTACAGCGCGAGGACAGCGCGCTTACCAG 719
Dy 4043 GACCCCATCGAGGCGAGGCGATCTCTGCGACCTAGCGCGGACCGGGCGAGGCGCT 4102
Qy 720 GATCTGATCCGCGCTCGCTGAGTACCAAGTGGGCTTGAACGAATAACAAGGCTTCTTC 779
Dy 4103 CGCTCCAGCTCGGCTCGTGAAGTGAACATCGGCCACGCGCAGCGCGCGGCGCTG 4162
Qy 780 GGCAGCTCGGTGTCAGTCTCTAGCGGATGCGCGCTTCTTCGAGGACAGCGCGAG 839
Dy 4163 GCGGGCTCATCAAGTGGTCTCGGATGCGCCACGCGCTCTGCCAGGACGCTCCAC 4222
Qy 840 AAGGCGCTCGCATCGAGTCGGCGCGCACCTCTACGACGCTCGGTCTGCTGCGAA 899
Dy 4223 GTGGACCGGCCACACCGCGTCACTTGGAGGCGCGGGGTGAGCTCTCACCGAG 4282
Qy 900 GAGGTCTATGCGAGGAGTCACTCCCGCACTACGCGCAATCCACGCGCGCTCGTC 959
Dy 4283 GAGCGGAGTGCGCGAGAGGCGCGCGCGCGCGCGCGGATCTCTCTTCGGCATC 4342
Qy 960 AACGCCAGATGGCCCTCAAGCAGCGCATGTGCAACATGTTGAGAGGTCTTCGGCGG 1019
Dy 4343 AGCGGACACCAACGCGCCCGAAGCAGGGAAGCGGGAAGCGGGAACACACCGCCACAC 4401
Qy 1020 ATGCGCTCGCGACCGCAGAGCTGCGCAGCTCCAGGATCGGCTCCAGAGTCGCGC 1079
Dy 4402 CACACACCGCGCCCGAAGCAGGGAAGCGGGAAGCGGGAACACACCGCCACAC 4461
Qy 1080 GCGAGGGCAAGCGCCAGCGCGAGATCGAGACGCTGAAGCGGC-AGGTGCGGCGCTT 1138
Dy 4462 GACGCGCGCGGCTCGGCTCGCGAACCCTGACGCGCGCGCTCGTGGTCTCGCGCG 4521
Qy 1139 GCGCGGCGCGCGAGCGCGCGCGCGCGCTCCCGCAGCGCCAGCAGCGCGCGCGCG 1198
Dy 4522 GAGCGCGCGCGCGCTGCG- -GCGCCAGGCGGCTTCGGCTGCGGACCTTCTCGACGCGCGA 4579
Qy 1199 GCGAGCGCGCGCGGCGAGCGCGCGCGCAAGCGCAGCACACGACCGCGCGCAAGAC 1258
Dy 4580 CCGGACGTACCGTGCAGACTCGG- -ACGCTCGTGGCGCGCGCTACCGCTTCAG 4636
Qy 1259 CACCAAGCGCCACCGCGCGAGTGTGCGCGCGCGCTTCATCGCCACCAAGGAGAGT 1318
Dy 4637 CACAAGCGCGCGCTCACACCGCCACAGGAGCAGGCTGCTCGCGCGGCTCGACGCCCTC 4696
Qy 1319 GCCGTGTCCTCCATTCGATCGACATCGGCGCGGACAGCTGACCGAGAGATGCTGGAG 1378
Dy 4697 GCGCGCGGGAAGCAAGCAGCGGCTGCTACCGCGCAACCGGCGAGGCGCGGACGCGAC 4756
Qy 1379 TACAGCGCAAGCTCGGCGAGGATGAGAACCTGCTCAAGCGCGACACAGATCGACACA 1438
Dy 4757 GCTTCTCTGTTACCGCGCAGGAGGAGCGCGCTGCGCATGGGCGAGAACTGCGCGCC 4816
Qy 1439 GCGGTACCCCCAAGGAGCTGCTCCACCGCGAGGACAAGCTGGTCTCTTACCGCTTACCGG 1498

Dy 4817 GCGCACCCCGTGTTCGCGCGCGCTCGACACCGGTGACGCGGCGCTCGACCGTCACTC 4876
Qy 1499 GCGCGCGCGAGGTGGGACCAAGACGATCCCGTGTGTGATCGTCTAGCGCTCTGTAAT 1558
Dy 4877 GACCGCGCTCGCGGAGATCGTCGCGCGCGGAGGAGCTGGACCTCACCGGTACACC 4936
Qy 1559 CGGCTTACATGACGACATCCAGGAGATCGCTCGAGATCAAGGGCTCTGTCGCCACC 1618
Dy 4937 CAGCGCGCTTTCGCTTCGAGTGG- - -CGTGTTCGCGCTCTCGAACACACAC 4990
Qy 1619 GGTGAGAGCTTATCTGATCGAATGGGCTACCGGATACAGGCGGACCGGCGGTGACC 1678
Dy 4991 GGCCTCGTCCCGGACCTGCTCACCGGCACTCCGTCGCGGAGATCGCGCGCGCGACGCTC 5050
Qy 1679 CTCGATGACTACATCAAGGCTACATCGACGCTCGCTCGACTACCTGCGGAGACCCAC 1738
Dy 5051 GCCGCTGCTCTCTCCCTCGAGCGCGCGACGTCGCTGTC- ACCGCGCGCGCGGCTCAT 5109
Qy 1739 GCGCTCGACACGAGTCAACCTGCTCGGATCTGCGAGGCGGGGCTTCAGGCTCTGCTAC 1798
Dy 5110 GCACTCGCGCGCGAGGCGCGGATGATCGCGTGCAGCGGCGGAGGCGCA- - - - 5163
Qy 1799 ACGGCTGCTACTCGGAGAGGTCAAAACCTGCTACCATGTTCAAGCGGTGACTTC 1858
Dy 5164 - -GGTCTGTCGAGTCTCTGAAGGCTACGAGGCGAGGCTCGCGCTCGCGCGCTCAACGGA 5221
Qy 1859 CAGACCCGCGGCAACCTGCTCTCGGCTGGTTCAGAACGTCGAGCTCGACTGCGCGCTC 1918
Dy 5222 CCCACCGCTGCTGCTCTCGGCGACGCGGACCGCGCGGAGGATCCGCGCGGTATGG 5281
Qy 1919 GACACCATGGGCAACATCCCGGCGAACTGCTCAACTGGACCTTCCTGCTCAAGGCC 1978
Dy 5282 GCGGACGCGCGCGCGCACCCGCGAGGCTGCGCTGACGACGCTTCCACTCCCGCGAC 5341
Qy 1979 TTCAGCTGACCGGCGAGAGTACGTCAACATGTTGCTGACTGCTCGAGCAGGAGAACG 2038
Dy 5342 ATGACACGCTCTCGAGAGTCTCTCGGCTCGCGGCGCTGACCTTCGAGGAGCGG 5401
Qy 2039 GTCAGAACTTCTCGGATGGAGAGTGGATCTTCGACAGCCGCGACAGCGCGCGAG 2098
Dy 5402 CGGATCCCGCTGCTCTCCAGGTACCGCGCGCTGCTGTCAGTCCGGGAGTCACTCG 5461
Qy 2099 ACCTTCGCGCACTCATCAAGGACTTCTACAGCGCAACGGCTTCATCAAGCGGCGCTC 2158
Dy 5462 CCGGCTACTGGTTCGACAGATCGGCGCGCGTGGCTTCTTGGAGCGCTCGCGAC 5521
Qy 2159 CTGATCGCGATCAGGAGTTCGCTTCGCGCAACATCGCGT- - -CCGCGTCTGAACATC 2215
Dy 5522 CTGCGCGCGCGAGGACGCGCTCTCTGTCGAGATCGCGCGCGCGCTCTCAAGGCA 5581
Qy 2216 TACCGATGACGAGACCACTGTCGCGCGGATGCTTCAAGGCGCTCGCGGACTGACC 2275
Dy 5582 CTCGCGAGGAGGCTCTCGCGCGCGGACGAGCGCGCGGAGCGCGGAGCTACGCTC 5641
Qy 2276 TCCAGCGAGGACTACAGGAGTTCGCTTCGCGCGGCGGACATCGGCTATCTAGCTCAGC 2335
Dy 5642 GTCCGCTGCTCGCGCGGCGCGCGCGCGAGCCCGAGACCTTCGCGCGGCTCGCGAC 5701
Qy 2336 GGCAGGCGGAGGAGTACCGCGCGGATCGCGCGCTGGCTGAAACGAGCAGCGGCTGA 2395
Dy 5702 GCCCATGTCCACGCGGACCTTGGACCGGCGCTGTTCTTCCGCGAGCGGCGCGGACG 5761
Qy 2396 GCGGCTGACCCACCGCTC- - -GAGGCGCGCGCGCGGATCGAAGCGCGCGCGG 2452
Dy 5762 GACCTGCCACGTAAGCTTTCGCGCGGAGCACTACTGGCTGACGCGCGGAGCGCTAG 5821
Qy 2453 GCGCGCATGAGCCATCGCGCGCTGCGCGCGCGCGCGCGCTTCGCGCGCGGACCGG 2512
Dy 5822 GACGCGCGGACTCGGCTTCGACCGCGCGGACCGCTGCTGACGACCAAGCTCGAG 5881
Qy 2513 CATCGCGCGCGGCTGCTGCTCAATGAGCTCT- - - - -TCGCGAGGCGGCGCGCG 2563

Db 5882 GTCCGCGGCGCGACGGCGTCTCTGTGACCGGCGTCTCTCCCTGACCGACAGCCCTGG 5941
Qy 2564 ATCGTCAACGAGGCTGATGGGCGCGACACACCACTGCTGGCGCGTACGACCGCTG 2623
Db 5942 CTGGCGGACCACTAGTCAACGGCGCGTCTCTGTTGCGGCGCACCGCTTCTGAGCTC 6001
Qy 2624 GCCGAGACTAGACGCCACCGCGGCTCTTCGACATCGGCGCGTCTGAGACATC 2683
Db 6002 GCCCTCGCGGCGGCGACACAGTCCGGGCGGTCCGGGTGAGGAACTCACCTCAGAGCG 6061
Qy 2684 TTCCGCGCGCTCCCGGCTCGCGGACCTCTCTCGACCTCGGCTGGGCGCGGAGCGG 2743
Db 6062 CGCTCGTCTCGCGAGCGGCGCGCTCCGCACTCCAGTCCGCTGCGGTGAGCGCGACGCG 6121
Qy 2744 TCGCGCGCGCTTCTCTGACCGCGG 2769
Db 6122 GAGTCCGCGCGCGCGCACCTTCGG 6147

RESULT 10

US-09-861-289-1

; Sequence 1, Application US/09861289

; Patent No. US20020110897A1

; GENERAL INFORMATION:

; APPLICANT: Sherman, D.H.

; APPLICANT: Liu, H.

; APPLICANT: Xue, Y.

; APPLICANT: Zhao, L.

; TITLE OF INVENTION: DNA encoding methymycin and pikromycin

; FILE REFERENCE: 600.438U1

; CURRENT APPLICATION NUMBER: US/09/861,289

; CURRENT FILING DATE: 2001-05-18

; PRIOR APPLICATION NUMBER: 09/105,537

; PRIOR FILING DATE: 1998-06-26

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1

; LENGTH: 15872

; TYPE: DNA

; ORGANISM: Streptomyces venezuelae

US-09-861-289-1

Query Match 2.9%; Score 84; DB 10; Length 15872;
Best Local Similarity 42.6%; Pred. No. 9.5e-07;
Matches 1034; Conservative 0; Mismatches 1355; Indels 37; Gaps 10;

Qy 360 CGCGACTTCATGGAGAAGCTCGCCGAGCAGGCGCTTCTCGGCTCACCGACTAC 419
Db 3743 CGCGCCTCGCGCGCGCGCTCCAGGCTTCTCCGACTCCGCGACGGCACCTCC 3802
Qy 420 TTCAGAAAGGCGCTCGGCGGAGTAGCGGTACGCGAGGCTGGGACACCTCTTCGAAGACC 479
Db 3803 TGGCGGAGGGGCTCGGCTCTCTGTCGAGCGGCTTCGAGCGCGGAGCGCAACGCG 3862
Qy 480 ATCGACGACATGCAAAAGCGCTTCGCGAGCGCGCGGATCGAAGGCGAGACCTTCGCG 539
Db 3863 CACCCGCTGCTCGCGTGATCCGGGCGAGCGCGGTCAACAGGACGCGCGCTCCAAACGG 3922
Qy 540 CGCTGATGGCTTCTGGGAGATCGGCTCGACACTGGCAGCGCACCATGTCCTCGTG 599
Db 3923 CTCACGCGCGCGCGCGCGCTCCAGCAGCGCGCTATCCGACAGGCGCTGGCGCGACGCC 3982
Qy 600 TCCCGGCTCGCGCGGACTCTGTGGCGCAACATGCGCGACGACCAAGTCAGGACAGCGTC 659
Db 3983 GGGCTCACCGCGCGCGAGTTCAGCGCGCTCGAGGCGCGAGTACCGGTACCGGCTCGCG 4042
Qy 660 GACCGCATCTCTCGGCAACCGGGCTCGGCTACACGCGAGGAGCAGCGCGCTTACCGAG 719
Db 4043 GACCCCATCGAGCGGAGCGAGTCTTCGCGACCTACGCGCGGACCGGGCGAGGCGCT 4102
Qy 720 GATCTGATCCGCGCTCTGAGTACCATGTCGGCGCTTGAACGATACAAAGGCTTCTTC 779
Db 4103 CGGCTCCAGCTCGGCTCGTGAAGTCGAACATCGGCGCGAGGCTCGCGCGCGCGGCGGTG 4162

Qy 1859 CAGACCCCGGCAACCTCTCTTGGCCCTGGGTCCAGAACGTCGACGTCGACCTGGCCGTC 1918
Db |||||
5222 CCCACCGCGTGGTCTCTCGGCGACGCGAGCGCGGAGAGATCCGCGCGTATGG 5281
Qy 1919 GACACCATGGGAACATCCGGGGGAACTGCTCAACTGGACCTTCTGCTGCTAAGCCC 1978
Db |||||
5282 GCGGACGCGCGCGGCGACCGCAGGCTGCGCGTCAGCAGCGCTTCACTCCCGCGAC 5341
Qy 1979 TTCAGCCTGACCGGCGAGAGTACGCTCAACATGCTGCGACCTGCTCGACGAGGACAA 2038
Db |||||
5342 ATGACGAGCTCTCGACGAGTCTCTCGGGTCGCGGAGGCGCTGACCTTCAGAGCGG 5401
Qy 2039 GTCAGAACTTCTTCGGATGGAGAAGTGGATCTTCGACAGCCCGGACGAGCGCGGAG 2098
Db |||||
5402 CGGATCCCGCTGCTTCACAGCTACCGCGCGCTGCTGACGTCGCGGAGCTACCTCG 5461
Qy 2099 ACCCTCCGCGATTTCATCAAGACTTTCACAGCGCAAGGCTTCATCAAGCGGCGCTC 2158
Db |||||
5462 CCCGCTACTGGGTGACAGATCCGCGCGCGCTGCTTCTGGAGCGCGCTCCGAC 5521
Qy 2159 CTGATCGCGGATCAGGAGGTGACCTGCGCAACATCCGCTG---CCCGTCTCTGAACATC 2215
Db |||||
5522 CTGGCGCGCGAGGACGACAGCTCTCTGTCGAGATCGCGCGGAGCGCTCTCAGCGCA 5581
Qy 2216 TACCGGATGACGAGCACCTGCTGCGCGGATGCTTCCAAAGGCCCTCGCGGACTGACC 2275
Db |||||
5582 CTCGCGAGGAGGCTCTCGCGCGCGGACGAGCGCGCGCGGACGTCACGCTC 5641
Qy 2276 TCCAGCGAGGACTACAGGAGCTCGCTTCCCGCGGCGGACATCGGATCTACGTCAGC 2335
Db |||||
5642 GTCCGCTGCTGCGCGCGGCGCGCCGAGCGCGGAGACCTCTCGCGCGCGCTCTCGGAC 5701
Qy 2336 GCGAAGGCGGAGGAGTACCCCGGCGATCGCGCGCTGCTGTAAGCGGCGCTGA 2395
Db |||||
5702 GCCATGTCACGCGCGACCTTGGACCGCGGCTGCTTCTCCGGAAGCGCGCGGACG 5761
Qy 2396 GCCGGTGCACCCCGCTC---GACGGGCGGCGCGGCGGATCGAAGGCGCGCGGCC 2452
Db |||||
5762 GACCTGCCACATGCTTCCGCGCGGACGACTACTGGCTGACGCGCGGCGGCTAGC 5821
Qy 2453 GCGCGCATGAGCATCGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2512
Db |||||
5822 GACGCGCGCGCATCGGCTTTCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 5881
Qy 2513 CATCGCGCGCGCTGGCTGCTAATGAGGCTCT-----TCGCGAGGAGCGCGCGC 2563
Db |||||
5882 GTCGCGCGCGCGCGCGGCTCTGCTGACCGCGCTCTCTCTCCTGACCGACCGACCTCG 5941
Qy 2564 ATGCTCAACGAGGCTGATGGGCGCGGACCAACCACTGCTGCGCGCGTACGACGCGTG 2623
Db |||||
5942 CTGGCGGACCATGGTCAACGCGCGCTGCTGTTGCGCGCGCGCGCTTCTGAGGCTC 6001
Qy 2624 GCGGAGACTAGGACGCGCGCGCGCTTTCGACATGCGCGCGCGCTGCTGAGGACATC 2683
Db |||||
6002 GCGCTCGGCGCGGCGGACCATCGTCGCGCGCGCTGCGGCTGAGGAACTCACCTCGAAG 6061
Qy 2684 TTGCGCGCGCTGCGCGCTGCGGACCTCTCTGACCTCGCTGCGCGCGCGCGGAGCG 2743
Db |||||
6062 CCGCTGCTGCGCGGCGCGCGCGCTGCGCATCCAGGCTGCGGCTGAGCGCGGACGCG 6121
Qy 2744 TCGCGCGCGCTTCTCTGACCGCGG 2769
Db |||||
6122 GAGTCCGCGCGCGCGGCGGACCTTCGG 6147

RESULT 11

US-09-364-847-20
; Sequence 20, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjal't w

; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 1680
; TYPE: DNA
; ORGANISM: Pseudomonas oleovorans
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(1680)
; OTHER INFORMATION: phbC1 gene
US-09-364-847-20

Query Match 2.9%; Score 81.8; DB 9; Length 1680;
Best Local Similarity 45.7%; Pred. No. 2e-06;
Matches 447; Conservative 0; Mismatches 517; Indels 15; Gaps 4;

Qy 1354 CAACGTGACCGAGGAGATGCTGGAGTACAGCCGCAAGCTCGCGGAGGTATGCAGAACT 1413
Db |||||
480 CAACCTGGCCCAAGACCTGGTCAACAACGGTGGCATGCCACGAGCGTGAACATGGAGCG 539
Qy 1414 GCTCAAGGCCACAGATCGACACAGGCGTCACCCCAAGAGACGTCGTCACCGCGAGGA 1473
Db |||||
540 CTTGAGTGGGCAAGA---ACCTGGGCAACGATGAAGGCGCGTGGTGTACCGCAAGA 596
Qy 1474 CAAGCTGTCTCTTACCGCTACCGCGCGCCGCGCAGGTGGCGACCCAGACGATCCCGCT 1533
Db |||||
597 TGTCTGGAGCTGATCCAGTACAAGCCATCACCGAGCAGGTG---CATGCCCGCCGCT 653
Qy 1534 GCTGATGCTTACGCCCTCTGTCATTCGGCCCTACATGACCGACATCCAGAGGATCGCTC 1593
Db |||||
654 GCTGTGTGTCGCGCGCAGATCAACAAGTTCTACGTATTCGACCTGAGCCCGGAAAGAG 713
Qy 1594 GACGATCAAGGCGCTGCTCGGCACCGGTGAGGACGCTCTATCTGATCGACTGGGGTACCC 1653
Db |||||
714 CTTGGCAGCTACTGCTGCGCTCGAGCAGCAGACCTTCATCATCAGTGGCGCAACC 773
Qy 1654 GGATCAGCGCACCGGCGCTGACCTCGATGATACATCAACGGCTACATCGACCGGTG 1713
Db |||||
774 GACCAAGCCCGAGCGAATGGGGCTGTCCACCTACATACGACGCGCTCAAGGAGCG-- 831
Qy 1714 CTTGACTACCTGCGGAGACCCAGCGGTGACAGGTCAACCTGCTCGGATCTGCCA 1773
Db |||||
832 -GTGACGCGGTGCTGGCGATTACCGGCGAGCAAGGACCTGAACATGCTCGGTGCTGCTC 890
Qy 1774 GGGCGGGCTTCAGCCTCTCTGCTACACGGCCCTGCACTCCGAGAAGGTCAAAAACCTCGT 1833
Db |||||
891 CCGGGCATACCTTGACCGGATTTGGTCGGCACTATGCCGCCCTCGCGCGAACAAGGT 950
Qy 1834 CACCATGCTACCGCGGTGCTGCTTTCAGACCCCGGGCAACCTGCTCTCGGCTGGGTCCA 1893
Db |||||
951 CAATGCCCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1010
Qy 1894 GAACTGAGCTGACCTGCGGCGGTGCTGACACCATGGGCAACATCCCGGGCGAAGTCTCA 1953
Db |||||
1011 GTTGTGACGAGCAGACTTTGGAGGCGCGCAAGCGCCACTCTACACGAGCGGTGCTCT 1070
Qy 1954 CTGGACCTTCTGCTGCTCAAGCCCTTCAGGCTGACGGCGCAGAGTAGTACGATCAACATGT 2013
Db |||||
1071 CGAAGGACGAGATGGCAAGGTGTTGCTGATGCGGCCCAACGACCTGATCTGAA 1130
Qy 2014 CGACTGCTCGACGACGAGGACAAGGTCAAGAACTTCTCTCGGATGGA-----GAAGTG 2067
Db |||||
1131 CTACTGGGTCAACAACCTACCTGCTCGGCAAGCGCGGTGTTTCGACATCTCTTCTG 1190
Qy 2068 GATCTTGGAGCGCGGACGAGCGCGGAGACCTTTCGCGCAGTTCTCATCAAGGACTTCTA 2127
Db |||||
1191 GAAACAACGACACCGCGCGCTTTCGCGCGCGCTTTCGCGCGAGCCTGATCGAAATGTTCAA 1250

Qy 2128 CAGCGCAACGGCTTCATCAACGGCGGGCTCTGTATCGCGCATCAGGAGGTGCACTCGG 2187
Db 1251 GAGCAACCGCTTGACCCGCGGAGCGCTGTGAGGTTTTCGGCACTCGGATCGACTGAA 1310
Qy 2188 CAACATCGCTGCCCGTCTCAACATCTACCCGATCAGGACCACTGGTGGCGCGGA 2247
Db 1311 ACAGGTCAATGCGCATCTTACAGCTTTCGGCGCACCAACGACCACTACACCCGCGCA 1370
Qy 2248 TGCCTCCAAGGCCCTTCGGGGACTGACCTCCAGCGAGACTACACGAGCTCGCTTCCC 2307
Db 1371 GTCATGTACCGCTCGCGCACCTGTTCGGCGCAAGATCGAGTTCTGCTCTCAACAG 1430
Qy 2308 CGCGGGCACATCGGCATC 2326
Db 1431 CGGCACATCCAGAGCATC 1449

RESULT 12

US-09-364-847-32
; Sequence 32, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huismann, Gjal W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER FILING DATE: 1999-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Pseudomonas putida
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(2571)
; OTHER INFORMATION: phaC1-linker-phaG fusion gene
US-09-364-847-32

Query Match 2.9%; Score 81.8; DB 9; Length 2571;
Best Local Similarity 45.7%; Pred. No. 2.1e-06;
Matches 447; Conservative 0; Mismatches 517; Indels 15; Gaps 4;
Qy 1354 CAAGTCGACCGAGGAGTGTGGAGTACAGCGCGAAGCTCGCGGAGGTATGCAAACT 1413
Db 480 CAACCTGGCCAAAGGACCTGGTCAACAACGGTGGCATGCGCCAGCCAGGTGAACATGGAGCC 539
Qy 1414 GCTCAAGCGCCAGACAGATCGACACAGGGGTCAACCCCAAGGACGTCTCCACCGCGAGA 1473
Db 540 CTTGAGGTGGCAAGA---ACCTGGGCACCAAGTGAAGCGCGCGTGGTATCCGCAACGA 596
Qy 1474 CAAGTGTGTCTCTACCGCTACCGCGCGCGCGAGGTGGGACCCAGACGATCCCGCT 1533
Db 597 TGTGTGGAGTGTATCCAGTACAGCCCATACCGAGCAGGTG---CATGCCGCGCGCT 653
Qy 1534 GCTGATGTCTACGCCCTCGTCAATCGGCCCTTACATGCCGACATCCAGGAGGATCGCT 1593
Db 654 GCTGTGTGTGCGCGCGAGATCAACAAGTTCTACGTATTTCGACCTGAGCCCGGAAAGAG 713
Qy 1594 GACGATCAAGGCCCTGTCTGCCACCGGTGAGGACGTCTATCTGATCGACTGGGGTACCC 1653
Db 714 CTTGACACGCTACTCGCTGCGCTCGCAGCAGCAGACCTTTCATCATCAGTGGCGCAACCC 773
Qy 1654 GGATCAGGCGCGACCGGGCGCTCAACCTCGATGACTACATCAACGGCTACATCGACCGCTG 1713
Db 774 GACCAAGCCCGAGCGGAATGGGGCTGTTCACCTTACATCTGACGCGCTCAAGGAGCG-- 831
Qy 1714 COTCGACTACCTGCGCGAGACCCACCGGCTCGACAGGTCAACCTGCTCGGATCTGCCA 1773

Db 832 -GTCAACGCGGTGTGGCGATTACCGGCAGCAAGACCTGAACATGCTCGGTGCTGCTC 890
Qy 1774 GGGGGGGCCCTTACGACCTCTCTCTACACGGCCCTGCACTCCGAGAAGGTCAAAAACTCGT 1833
Db 891 CGCGCGCATCACTTGCAGCGGATGTTGGTGGCCACTATGCGCGCCCTCGCGGAAACAAGT 950
Qy 1834 CACATGTTGTCAGCGCGTGTGACTTCCAGACCCCGGGCAACCTGTCTCGGCTGGGTGCA 1893
Db 951 CAATGCCCTGACCCCTGTGTGTGAGCGTGTGAGACACCACTGACAAACAGGTGCGCCT 1010
Qy 1894 GAACTGCAACCTCGACCTGGCGCTGACACCATGGGCAACATCCGGGGGAACCTCTCAA 1953
Db 1011 GTTCGTGACGAGCAGACTTTGGAGGCCGCCAAGCCACTCTCTACAGGCGCGTGTGCT 1070
Qy 1954 CTGGACCTTCTCTGTCTCAAGCCCTTTCAGCCTGACCGGCCAGAGTACGTCAACATGCT 2013
Db 1071 CGAAGGACGAGATGGCCAAAGTGTTCGCTGGATGCGCCCAACGACCTGATCTGGAA 1130
Qy 2014 CGACTGTCTGACGAGGAGCAAGGTCAAGAACTTCCTCGCGGATGGA-----GAAGTG 2067
Db 1131 CTACTGGGTCAACAACACTACCTGTCTCGGCAACGAGCGCGGTGTTTCGACATCTCTTCTG 1190
Qy 2068 GATCTTGACAGCGCGGACAGCGCGGAGACCTTCCGCCAGTTCATCAAGGACTTCTA 2127
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Qy 2128 CCAGCGCAACGGCTTCATCAACGGCGGCTCTGATCGCGCATCAGGAGGTGCACTGCG 2187
Db 1251 GAGCAACCGCTGACCCCGCGGAGCCCTGGAGGTTTCGGCACTCCGATCGACTGAA 1310
Qy 2188 CAACATCGCTGCGCGGTCTGAAATCTACCCGATGAGGACCACTGGTGGCGCCCGGA 2247
Db 1311 ACAGGTCAATGCGACATCTACAGCTTTCGCGGCAACCAACGACACATCACCCCGTGCA 1370
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Db 1371 GTCATGTACCGCTCGCGCGACCTGTTCCGGCGCAAGATCGAGTTCTGCTGTCCAACAG 1430
Qy 2308 CGCGGGCACATCGGCATC 2326
Db 1431 CGGCACATCCAGAGCATC 1449

RESULT 13

US-09-364-847-34
; Sequence 34, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huismann, Gjal W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER FILING DATE: 1999-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 34
; LENGTH: 2571
; TYPE: DNA
; ORGANISM: Pseudomonas putida
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(2571)
; OTHER INFORMATION: phaG-linker-phaC1 fusion gene
US-09-364-847-34

Query Match 2.9%; Score 81.8; DB 9; Length 2571;
Best Local Similarity 45.7%; Pred. No. 2.1e-06;
Matches 447; Conservative 0; Mismatches 517; Indels 15; Gaps 4;


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Qy 1354 CAAGCTGACCGAGGAGATGCTGGAGTACAGCCGCAAGCTTGGCGAGGGTATGCAAACTT 1413
Db 1371 CAACCTGGCCAAAGGACCTGGTCAACAAGCGTGGCATGCCAGCAGGTGAACATGGAGCG 1430
Qy 1414 GCTCAAGCGCGACCAATGACACACAGCGGTCAACCCCAAGAGCGTGGTCCACCGGAGGA 1473
Db 1431 CTTTCAGGTGGCAAGA---ACCTGGGCAACAGTGAAGCGCGCGGTGTACCGCAACGA 1487
Qy 1474 CAAGCTGTCTCTACCGCTACCGCGCGCGCGCAGGTGGGACCCAGACGATCCCGCT 1533
Db 1488 TGTGCTGGAGCTGATCCAGTACAGCCCATCACCGAGCAGGTG---CATGCCGCGCGCT 1544
Qy 1534 GCTGATCGTCTACGCCCTGTGTAATGGGCCCTTACATGACCCAGATCCAGGAGATCGCTC 1593
Db 1545 GCTGTGTGGCGCGCGAGATCAACAAGTTCTAGCTATTCGACCTGAGCCCGGAAAGAG 1604
Qy 1594 GACGATCAAGGCGCTGCTGCCACCGGTTCAGACGCTCTATCTGATGAGTGGGGTACCC 1653
Db 1605 CTTGCCACGCTACTGCTGCTGCTGCGTCCAGCAGCAGACCTTCATCATCAGTGGCGCAACC 1664
Qy 1654 GGATCAGGCGGACCGGGCGCTGACCTCGATGACTACATCAACGCTACATCGACCGCTG 1713
Db 1665 GACCAAGCCAGCGGAATGGGGCTGTCCACCTTACATCGACGCTCAAGGAGCG-- 1722
Qy 1714 CGTGACTACCTGCGCGAGACCCACGGCGTGCACAGGTCAACCTGCTCGGGATCTGCCA 1773
Db 1723 -GTGACCGGTGTGGCGATTACCGGAGCAAGACCTGAACATGCTCGGTGCTGCTC 1781
Qy 1774 GGGCGGGGCTTCAGCCTCTGTACACGGCCTGTGACTCCGAGAGGTCAAAAACCTCGT 1833
Db 1782 CGCGGGCATCACTGCACGGCATTTGGTGGGCCATATGCCGCCCTCGCGCAAAAACAGGT 1841
Qy 1834 CACCATGTGCAGCGGTGAGCTTCACAGACCCGGCAACCTGCTCTCGGCTGGGTCCA 1893
Db 1842 CAATGCCCTGACCTTGTGCTCAGGTGCTGACACACCATGGAACACAGGTGCGCCT 1901
Qy 1894 GAACTGCAAGCTGCACTTGGCGTGCACACCATGGGCAACATCCCGGGCGAACTGCTCAA 1953
Db 1902 GTTCTGCAAGCAGCAGACTTTGGAGGCGCGCAAGCGCCACTCTTACCAGGCGGTGTGCT 1961
Qy 1954 CTGGACCTTCTGCTCGCTCAAGCCTTCAAGCTGACCGGCGAGAGTAGTCAACATGCT 2013
Db 1962 CGAAGCGACGAGATGGCGCAAGGTGTTGGCTGGATGCGGCCCAACGACCTGATCTGAA 2021
Qy 2014 CGACTGCTCGACGACGAGGACAAGTCAAGAACTTCTGCGGATGGA-----GAAGTG 2067
Db 2022 CTACTGGGTCAACAATACCTGCTCGGNAACGAGCGCGGTGTTGACATCCTGTTCTG 2081
Qy 2068 GATCTTCGACAGCCCGGACCAAGCGCGGAGACCTTTCGCGCAATTCATCAAGGACTTCTA 2127
Db 2082 GAAACAACGACACCAACGCGCTTCCGCGCGCTTCCACGCGACCTGATCGAAATGTTCAA 2141
Qy 2128 CCAGGCGAAGCGCTTCAACAGCGGGGTCTCTGATCGGCGATCAGGAGTTCGACTGG 2187
Db 2142 GAGCAACCGCTGACCCCGCGGAGCGCTGGAGGTTTTCGCGCACTCCGATCGACTGAA 2201
Qy 2188 CAACATCCGCTGCGCGTCTGAACTATACCCGATGAGGACACCTGGTGGCGCCGGA 2247
Db 2202 ACAGGTCAATTCGACATCTACAGCTTTCGCGGCAACCAACGACCACTACCCCGTGGCA 2261
Qy 2248 TGCCTTCAAGGCGCTTCGGGGACTGACCTTCCAGCGAGGACTACAGGAGCTCGCTTCCC 2307
Db 2262 GTCATGCTACCGCTCGGCGACCTGTTCGGGCGCAAGATCGAGTTCTGCTGTCCAACAG 2321
Qy 2308 CGCGGGGACATCGGCATC 2326
Db 2322 CGGCCACATCCAGAGCATC 2340
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RESULT 14

US-09-772-304A-1/c

; Sequence 1, Application US/09772304A

RESULT 15

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; Patent No. US20020146785A1
; GENERAL INFORMATION:
; APPLICANT: Mahishi, L.H.
; APPLICANT: Tripathi, G.
; APPLICANT: Ramchander, T.V.N.
; APPLICANT: Rawal, S.K.
; TITLE OF INVENTION: NOVEL ESCHERICHIA COLI HAVING ACCESSION
; FILE REFERENCE: A33943 066123.0103
; CURRENT APPLICATION NUMBER: US/09/772.304A
; CURRENT FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 4826
; TYPE: DNA
; ORGANISM: Streptomyces aureofaciens
; US-09-772-304A-1
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Query Match 2.8%; Score 81; DB 10; Length 4826;
Best Local Similarity 49.0%; Pred.No.3e-06;
Matches 329; Conservative 0; Mismatches 335; Indels 7; Gaps 4;

Qy 2165 GCGATCAGGAGTGCAGCTCGCCAAACATCCGCTGCCCGTCTCTGAACATCTACCCGATG 2224
Db 1307 GCGAGCAGGAGCGCCACACAGAGCCGCTCTCCCGCCAGCGCAGCGGTGGGACGTC 1248
Qy 2225 CAGGACCACTGGTGGCGCGGATGCTTCCAAAGGCCCTCGCGGACTGACCTCCAGCCAG 2284
Db 1247 CAGCAGCGCGCGCAGCAGAGGGCCCCCAGC---CGAGCGCCACCGCGCCGCC 1191
Qy 2285 GACTACAGGAGTTCGCCCTTCCCGCGGGGCACATCGGCATCTAGTCAGCGGCAAGCG 2344
Db 1190 GACGACCCCGCAGCGTGCCTCGGAAGCGCGCCGCGACACCGGCCCGCGCACCGG 1131
Qy 2345 CAGGAGGAGTACCCCGCGATCGCGCGTGGTGAACGAAACGGCGTGAACCGGTCG 2404
Db 1130 CCGCGCGACACCGCGGACCGCGGCGCACGCGGCGCGCGCGCGCGCGCGCGC 1071
Qy 2405 ACCACACCGCTCGAGCGGCGCGCGCGGCATC-GAAGGCGCGCGCGCGCGCCATGA 2463
Db 1070 ATCGTGGCGGGGTCCCGTGTGCGGTGTCGCGGGGGCGGGTGCAGCCAGAAAGA 1011
Qy 2464 GCCATCGCGCGCTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 2523
Db 1010 CCGGCAACCGCGCGGAGCGGACGACCGACGCGCACTCCGGTTACGCTCGCGCCAG 951
Qy 2524 C-GGCTGGGTACATGACGTCTTCGGGAGGAGCCCGCATCGTCAACGAGGCTGCA 2582
Db 950 CATGCCCGGCCACCGCGCGAGCACACCGGGGCGCGCGCGCGCGCGCGCGCGCG 891
Qy 2583 TGGGCGCGGACCACTGCTGGCGGTACGAGCGCTGGCGGAGACCTACGAGCGCC 2642
Db 890 TCGACCCCGAGCGGACCGGAAGCGCTCCGGCGTCCCGGCCACACGTCCTGACACACG 831
Qy 2643 ACCCGGGCTCTTCGACATGGCGCGCTGTCTGAGGACATCTTCGCGCGCGCTTCGCGGCT 2702
Db 830 TCACGGGCGCGAGCAGCAGCCCGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCA 771
Qy 2703 GGGGACCTCTGACCTCGG--CTGCGGCGCGGGGAGCGGTGCGCGCGCGCTTCTT 2760
Db 770 CCACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 711
Qy 2761 CGACCGCGCTGGCGGTGACCGGGTGGACTTCTGCCCGCGCATGCTCGCGCTCGCGCG 2820
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Qy 2821 GCGCTACGTC 2831
Db 650 GCGCGCGCGCG 640
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US-09-815-242-7772
; Sequence 7772, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815.242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7772
; LENGTH: 1992
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1992)
US-09-815-242-7772

Query Match 2.8%; Score 78.4; DB 10; Length 1992;
Best Local Similarity 43.5%; Pred. No. 8.3e-06;
Matches 570; Conservative 0; Mismatches 721; Indels 19; Gaps 4;
Qy 901 AGGTCATGCCGAGGAGTACGCTCGCGGACTACGCGACATCCACGCGCCGCTCGTCA 960
Db 95 AGGGGTATCGTGTGATGATCAACGCGCGGAGTTCGTGCGCATCGTGGCGGCTCCGGT 154
Qy 961 ACGCCAGATGCGCTCAAGCAGCGCATGTGACCATGTGTCAGCAGGTCTCTCGCGCGGA 1020
Db 155 CCGCAAGTCGACCTGATGACATCTCTCGGTGCTCGACCGGCCAGCTCCGGCAGCT 214
Qy 1021 TGCCGCTCGGACCGCAGCGAGTGGCAGCCTCGAGATCGGTTCAGAGTCCGCGG 1080
Db 215 ACCACTTCGCGCGCCACGACGTGCGCGAATCGACAGCGACGAGCGCTGGCTGCGCC 274
Qy 1081 GCGAGGGAAGCGCGCAGCGCAAGAGATCGACAGCTGAAGCGCGAGTTCGCGGCTTGG 1140
Db 275 GCGAGCATTCGGCTTGTGTTTCAGGGGTATCACTGATCCCTCGGCTCGGCGCAGG 334
Qy 1141 CCGCGCGGCCCGAGCCCGCGCCAGGCTTCGCCAGCCAGCAGCGCGCGCGCGCGG 1200
Db 335 AAAAGTCGAGATCGCGGATCTACGCGGCATCCCGGAGCGAGCGGCACACCCCGG 394
Qy 1201 CGACGCGCGCGCGGAGCGCGGCCCAAGCGAGCAGCAGACCGG - CGCGAAGACC 1259
Db 395 CGCGGCGCTGTCTGAAGCGCTGGCGGCTGGCGAGCGGACACCGCCACCGTCCGCA 454
Qy 1260 ACCAGGCCACCGCGCAGTGTGTCGCGCGCGCTCCATCGCCACCGAGAGAGT- 1318
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Qy 1319 -----GCCGTGTCCTCCGATTCGATCGACATCCGGCCCGACAAGCTGACCGGAGG 1367
Db 515 TCATCTCGCGAGCAACCCACCGCGCCTCGACAGCCACAGCGCGCGGAAGTCATGG 574
Qy 1368 AGATGCTGAGTAC---AGCGCGAAGCTCGCGAGGGTATGCAGAACCTGCTCAAGGCGG 1424
Db 575 CGTGTCTGAGAGCTGCCAGCCAGGGCCAGTGGTGATCTCTGATCACCCACGACCGCG 634
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Db 635 AGTTCGCGCGCGCGCAAGCGCATCATCGAGGTGCGCGAGCGCGAGATCGTCAGCGACA 694
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Qy 1605 GCCTGCTCGCCACCGGTGAGGACGTCTATCTGATCGACTGGGGCTTACCGGATCAGGCGG 1664
Db 815 AACTGCTGAGGCGGTGCGCGCGCTGCGGGTGATGTGGATCAATCGTTCCGACCG 874
Qy 1665 ACCGGCGCTGACCTCGATGACTACATCAACGGCTCATCGACCGCTGCGTTCGACTACC 1724
Db 875 CGCTGACCTGCTCGGGATCATCATCGCGTCCGCTCGCTGCTGCTGCTGCTGCTGCTG 934
Qy 1725 TGGCGGAGACCGCGGTGACAGGTCAACCTGCTCGGGATCTGCCAGGCGGGGGCT 1784
Db 935 GCGAGGCGAGCAAGCGCGAGGTGATGGCGGATGGGCGGCTTCGGCTCGAACATCATCT 994
Qy 1785 ---TCAGCTCTGCTTACACGCGCTTCGACTCCGAGAAAGTCAAAAACCTCGTCACCATGG 1841
Db 995 ATCTCAGCGGTACTTCGCGGAACCGCGCGCGCGATCGTGCGATCGTCAGCAGCGAGCG 1054
Qy 1842 TCAGCGCGGTGACTTCAGACCGCGCGCAACCTGCTTCGCGCTGGGTTCAGAAAGCTGG 1901
Db 1055 TCGCGCCATCGCCACCTGCGCCAGGTGAAGAAGTTCATGCGGTGAACGCGCGCGAGC 1114
Qy 1902 ACGTCGACTGCGCGTGCACACCATGGCAACATCCCGGGCGAAGTCTGCTCACTGACCT 1961
Db 1115 TGGTGTGCTGCTACGGGAACATCGACTACCGCGCTACGTTCGGGCGCAACACCGACT 1174
Qy 1962 TCCTGCTCAAGCGCTTCAGCGCTGACCGCGCAGAAAGTACGTCAACATGCTCGACCTGC 2021
Db 1175 TCCCGAAATCTCACTGGCGGTGCGCGGAGGAGCTACTTCACCGAGCGCGAGAG 1234
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Db 1235 ACGCGCCACCAAGGTGCGGTGATCGGTACAAAGGTGCGCAAGAAGTGTTCGCGCAGCG 1294
Qy 2082 CGGACCGCGCGGAGACTTCGCGCAGTTCATCAAGGACTTTCACGAGCGCAAGCGCT 2141
Db 1295 CCAACCGGATCGCGCGTACATCTCTCATCGAAGCGTCCGCTTCAGGTCATTCGCGCTGC 1354
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Db 1355 TCGCGGAGAAAGGTCTCAGCTCCGCGCAAGAGATGCCGCAACACCGCATC 1404

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OM protein - protein search, using sw model

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(without alignments)
322.761 Million cell updates/sec

Title: US-09-779-427-2
Perfect score: 1919
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Scoring table: BLOSUM62
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Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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2: /cgn2_6/ptodata/2/iaa/5B-COMB.pap.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pap.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pap.*
5: /cgn2_6/ptodata/2/iaa/PCJUS-COMB.pap.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1919	100.0	367	3	US-08-809-286B-2
2	122.5	6.4	305	3	US-08-937-271-10
3	105	5.5	546	4	US-08-630-915A-14
4	104	5.4	546	2	US-08-942-423-4
5	101	5.3	523	2	US-08-997-080-114
6	101	5.3	523	2	US-08-997-362-114
7	101	5.3	523	4	US-09-095-855-114
8	101	5.3	523	4	US-09-324-542-114
9	101	5.3	523	4	US-09-205-426-114
10	101	5.3	541	2	US-08-997-080-160
11	101	5.3	541	2	US-08-997-362-160
12	101	5.3	541	4	US-09-095-855-160
13	101	5.3	541	4	US-09-324-542-160
14	101	5.3	541	4	US-09-205-426-160
15	99	5.2	317	2	US-08-726-306A-168
16	98.5	5.1	580	3	US-08-906-665-1
17	98.5	5.1	580	4	US-09-129-668-1
18	97	5.1	376	6	5180810-1
19	96	5.0	1068	4	US-09-085-199B-11
20	96	5.0	10182	4	US-09-134-001C-3159
21	94.5	4.9	1388	4	US-09-572-191-2
22	94.5	4.9	1388	4	US-09-723-262-2
23	94.5	4.9	1388	4	US-09-723-219-2
24	94.5	4.9	3111	2	US-08-460-309-4
25	94.5	4.9	3111	2	US-08-125-077-4
26	94	4.9	540	2	US-08-368-834-20
27	94	4.9	540	4	US-08-461-722-3

28	94	4.9	540	4	US-08-336-251-3	Sequence 3, Appli
29	94	4.9	540	5	PCT-US94-06362-3	Sequence 3, Appli
30	94	4.9	541	2	US-08-467-822-34	Sequence 34, Appl
31	94	4.9	541	2	US-08-447-154-19	Sequence 19, Appl
32	94	4.9	541	4	US-08-432-697-34	Sequence 34, Appl
33	94	4.9	541	4	US-08-466-248-34	Sequence 34, Appl
34	94	4.9	619	1	US-08-465-746-2	Sequence 2, Appli
35	94	4.9	619	1	US-08-214-164-2	Sequence 2, Appli
36	94	4.9	619	2	US-08-467-852A-3	Sequence 3, Appli
37	94	4.9	619	2	US-08-246-636-2	Sequence 2, Appli
38	94	4.9	619	2	US-08-247-491A-3	Sequence 3, Appli
39	94	4.9	619	2	US-08-319-795-2	Sequence 2, Appli
40	94	4.9	619	2	US-08-468-985-2	Sequence 2, Appli
41	94	4.9	619	3	US-08-312-949-2	Sequence 2, Appli
42	94	4.9	648	1	US-08-072-070-2	Sequence 2, Appli
43	94	4.9	648	1	US-08-469-434-2	Sequence 2, Appli
44	94	4.9	648	1	US-08-214-222-2	Sequence 2, Appli
45	94	4.9	648	2	US-08-467-852A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-809-286B-2
; Sequence 2, Application US/08809286B
; Patent No. 6011144
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic
; fatty acids, and recombinant bacterial strains for
; carrying out the process
; TITLE OF INVENTION: carrying out the process
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,286B
; FILING DATE: 3-JUL-97
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patricia A. Kammerer
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: MOBT-152 (28-21(15115)A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
US-08-809-286B-2

Query Match 100.0%; Score 1919; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 1.7e-167;
Matches 367; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 VNDTANKTSDWLDIQRKYWE...TSELGRKTGLGKTPANPWAGALDHHWQTVSPAAPNDLV 60
DB 1 VNDTANKTSDWLDIQRKYWE...TSELGRKTGLGKTPANPWAGALDHHWQTVSPAAPNDLV 60


```

QY      1 VNDTANKTSDW-----LDIQRKYWETWSLGRKTLGLEKTPANPWA----- 41
Db      29 VNDVSEKEORWGAKTVOGSGHQEHINITHKURENVQB- -HQTLEKELETGPKASHGYGG 86
QY      42 -----GALDHWMQT--VSPAAPNDLVDRDFMEKLAEQ-----GKAFFGLTD 79
Db      87 KFGVEQDRMDRSRVAHEYQSKLKHCSQVDSVRGFGKGFGVMRDVQDSAVGFPEYQCKTE 146
QY      80 Y-----FTYKLGSSCTO-----GWDTLISKT-IDDMQKAFASG-----RIGETE 118
Db      147 KHASKQDYSSGFGKGYGVQADRVDKSAVGDFYQCKTEKHESQXDYSKGGFKYGIDKKVK 206
QY      119 FRRLMAFWEMPLDNWRQMTSSLSFVPGDLLRNPHDOVRSDVRIILSAPGLGYTREEQAR 178
Db      207 DKSavgf-----BYQG-----KTEKHESQKDYYKVGFGKGFGVQTRDQDKCA 247
QY      179 YODLIIRSLESYQSALNEY-NGFFCOLGVKSLEMRPAFLQQAEGKVAIESARTLYDAWVG 237
Db      248 LGWDHQEKQLJHESQKDYKTFGFGKGFGVS-EKO-----DSSAVGFD----- 288
QY      238 CCEEYAAEEVSSADYAHIGHRLVNAQNALQRKMTSMVDEVL-----GAMPLPT----- 285
Db      289 -YKERLAKHEPOQDYAKGFGKGKYGVQKDRMDKNASTPEEVVVQPSAYQKVTPIEAVTSKT 347
QY      286 ---FSELRTL-QDRLOESRGEGK-----RORELETILKRQVAAALAGGAQPAPAOSAQ 333
Db      348 SNIIRANTENLAKEREQEDRRKAEARAQRMAKRGQEERARRKLEEQARAKQOTPPAS--- 405
QY      334 PSTRAPATAPAA-----SAAPKRSITTTTR 358
Db      406 PSPQIEDRPSSPIVEDAAPPFKAEPSYR 434

```

RESULT 4

US-08-942-423-4
; Sequence 4, Application US/08942423
; Patent No. 5891673
; GENERAL INFORMATION:
; APPLICANT: Hashimoto, Yasuhiro
; APPLICANT: Takemoto, Yoshihiro
; TITLE OF INVENTION: Lck Binding Protein
; NUMBER OF SEQUENCES: 68
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Syntex (U.S.A.) Inc.
; STREET: 3401 Hillview Ave.
; CITY: Palo Alto
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/942,423
; FILING DATE: 01-OCT-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/362,715
; FILING DATE: 23-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Perles, Rohan
; REGISTRATION NUMBER: 35,752
; REFERENCE/DOCKET NUMBER: 28260
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 852-1698
; TELEFAX: (415) 496-3529
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 546 amino acids
; TYPE: amino acid

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; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: HSI
; US-08-942-423-4

Query Match          5.4%; Score 104; DB 2; Length 546;
Best Local Similarity 19.8%; Pred. No. 0.32;
Matches 89; Conservative 67; Mismatches 159; Indels 134; Gaps

Qy 1 VNDTANKTSDW-----LDIQRYWTFWSELGRKTLGLSEKTPANPWA----- 41
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 29 VNDVSEKEQWGAKTVOGSGHQEHNIIHLKLRNVFOE--HTLKEKELETGPKASHGYGG 86
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 42 -----GALDHWQOT--VSPAINDLVDPFMEKLAEO-----GKAFFGLTD 79
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 87 KFGVEQDRMDRSVAVGHEYQSKLSKHCQSQVDSVRGFGGKFGVQMDRVQDSAVGEYQGKTE 146
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 80 Y-----FTKGLGSSGTQ-----GWDTLSTKT-IDDMQKAFASG-----RIEGDET 118
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 147 KHASQKDYSSGFGRYGVQADRVYDKSAVGFDYQKTEKHESQKDYSGFGGKYGIDKDKV 206
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 119 FRRLMATFWEPLNDWQRTSSLSVPFGDLLRNPHDOVRSDVRLILSAPGLGYTREEQAR 178
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 207 DKSAVGF-----EYQG-----KTEKHESQKDYVKGFGGKFGVQTDRODKCA 247
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 179 YQDLIRSLREYQSALNEY-NGFFQGLGVKSLERMRAFLOGQAEKGVAIESARTLYDANWVG 237
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 248 LGWDPHQEKLQHLHESQKDYKTFGFGKFGVQS-ERQ-----DSSAVGFD----- 288
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 238 CCEEVAAEEVSSADYAHIGHRLVNAQMAKQKRMSTWDEVL-----GAMPLPT----- 285
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 289 -YKRLAKHPQDYAKGFGCKYGVQKDRMDKQVASTFEVVQVPSAYQKTVPIEAVTSKT 347
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 286 ---RSERLTL-QDRLOESRGEK-----RORQBIETLKRQVAALAGGAQPAQASAO 333
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 348 SNIRANFENLAKEREQDRKKAERAQMAKEREQEEARRKLEEQAKKQTPPAS-- 405
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 334 PSTPAPATAPAA-----SAAPKRSSTTTRR 358
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 406 PPSQPIEDRPSSPIYEDAAAPFAEPSYR 434
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 5
US-08-997-080-114
; Sequence 114, Application US/08997080
; Patent No. 5968524
; GENERAL INFORMATION:
; APPLICANT: WATSON JAMES D.
; APPLICANT: TAN, PAUL L.O.
; TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUN
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997,080
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

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; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1007
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-997-080-114

Query Match 5.3%; Score 101; DB 2; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRFMEKLAEGQ-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 158 ELIAEAMDKVNGEVITVEESNTFGLQLELTEGMRFDKGYISGFVTDAREQEAIVLEDPY 217
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 106 KAFASGRLEGDETFRRLMFAWEMPLDNMQRTWSSLSPPVGDLLRNMPHDQVRDSDRI-L 164
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 218 ILLVSKV---STVKDLPPLLEKVIQAGKPLLIITAEDEVEGEALSTLVVNKIRGTFSVAV 274
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 165 SAPGLGYTREQARYQDLIRRSLEYQSALNEYNGFFQGLGVKSLERMRAFLOGQAEKGVA 224
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 225 IESATLY-----DAWVCCCEEVAAE-EVSSADYAHIGHRLVNAQMAKORMSTMVDEV 277
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 324 TKDETTIVGSGSDSAIAGRAVAIRAEIENSDSY-----DREKLERLAKLAGV 374
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 278 ----LGAMPLPTRSELRTLDRLQESRGEGKRQROEIEITLKROVAALAGGA----QPAP 328
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGVALIQSAP 422
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 6
US-08-997-362-114
; Sequence 114, Application US/08997362
; Patent No. 5985287
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Hiyama, Jun
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Scott, Linda
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fast-SEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE:

;
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/873,970
; FILING DATE: June 12, 1997
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/705,347
; FILING DATE: August 29, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-997-362-114

Query Match 5.3%; Score 101; DB 2; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRFMEKLAEGQ-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 158 ELIAEAMDKVNGEVITVEESNTFGLQLELTEGMRFDKGYISGFVTDAREQEAIVLEDPY 217
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 106 KAFASGRLEGDETFRRLMFAWEMPLDNMQRTWSSLSPPVGDLLRNMPHDQVRDSDRI-L 164
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 218 ILLVSKV---STVKDLPPLLEKVIQAGKPLLIITAEDEVEGEALSTLVVNKIRGTFSVAV 274
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 165 SAPGLGYTREQARYQDLIRRSLEYQSALNEYNGFFQGLGVKSLERMRAFLOGQAEKGVA 224
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 225 IESATLY-----DAWVCCCEEVAAE-EVSSADYAHIGHRLVNAQMAKORMSTMVDEV 277
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 324 TKDETTIVGSGSDSAIAGRAVAIRAEIENSDSY-----DREKLERLAKLAGV 374
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 278 ----LGAMPLPTRSELRTLDRLQESRGEGKRQROEIEITLKROVAALAGGA----QPAP 328
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGVALIQSAP 422
; : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 7
US-09-095-855-114
; Sequence 114, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE:
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; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-095-855-114

Query Match 5.3%; Score 101; DB 4; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABOG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
DB 158 ELIAAMDKVGNEGVTVEESNTFGLQLTEGMRFDKGYISGYFTDAERQEAIVLEDPY 217
QY 106 KAFASGRIEGDETFRRMLAFWEMPLDNWQRTMSSLSPPVGDLLRNMPHDOVRDSVDRI-L 164
DB 218 ILLVSSKV---STVKDLLPLEKVIQACKPLIIAEDVEGEALSTLVNKNKIRGTFSKAV 274
QY 165 SAPGLGYTREEQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMRAFLQGAQKGYA 224
DB 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIHGRLVNAQMAKQRMSTWDEV 277
DB 324 TKDETTIVEGSGSDAIAGRAVQIRAEIENSDDSY-----DREKLERLAKLAGV 374
QY 278 ----LGAMPLPTRSELRTLODRLOESRGEGRQROEIEITLKRQVAALAGGA---QPAP 328
DB 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVE-----GIVAGGGVALLQSAP 422

RESULT 9
US-09-205-426-114
; Sequence 114, Application US/09205426
; Patent No. 6406704
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Compounds and Methods for Treatment and
; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
; FILE REFERENCE: 11000.1002c4
; CURRENT APPLICATION NUMBER: US/09/205,426
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 09/095,855
; EARLIER FILING DATE: 1998-06-11
; EARLIER APPLICATION NUMBER: 08/997,362
; EARLIER FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 08/873,970
; EARLIER FILING DATE: 1997-06-12
; EARLIER APPLICATION NUMBER: 08/705,347
; EARLIER FILING DATE: 1996-08-29
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 114
; LENGTH: 523
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-09-205-426-114

Query Match 5.3%; Score 101; DB 4; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABOG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
DB 158 ELIAAMDKVGNEGVTVEESNTFGLQLTEGMRFDKGYISGYFTDAERQEAIVLEDPY 217
QY 106 KAFASGRIEGDETFRRMLAFWEMPLDNWQRTMSSLSPPVGDLLRNMPHDOVRDSVDRI-L 164
DB 218 ILLVSSKV---STVKDLLPLEKVIQACKPLIIAEDVEGEALSTLVNKNKIRGTFSKAV 274
QY 165 SAPGLGYTREEQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMRAFLQGAQKGYA 224
DB 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIHGRLVNAQMAKQRMSTWDEV 277
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
```

```
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 523 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-095-855-114

Query Match 5.3%; Score 101; DB 4; Length 523;
Best Local Similarity 22.4%; Pred. No. 0.57;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABOG-----KAFGLTDYFTKGLGSSG-TQGW-----DTLSKTIIDMQ 105
DB 158 ELIAAMDKVGNEGVTVEESNTFGLQLTEGMRFDKGYISGYFTDAERQEAIVLEDPY 217
QY 106 KAFASGRIEGDETFRRMLAFWEMPLDNWQRTMSSLSPPVGDLLRNMPHDOVRDSVDRI-L 164
DB 218 ILLVSSKV---STVKDLLPLEKVIQACKPLIIAEDVEGEALSTLVNKNKIRGTFSKAV 274
QY 165 SAPGLGYTREEQARYQDLIRRSLEYQSALNEYNGFFGQGVKSLERMRAFLQGAQKGYA 224
DB 275 KAPGFGDRR--KAMLQDM--AILTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323
QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIHGRLVNAQMAKQRMSTWDEV 277
DB 324 TKDETTIVEGSGSDAIAGRAVQIRAEIENSDDSY-----DREKLERLAKLAGV 374
QY 278 ----LGAMPLPTRSELRTLODRLOESRGEGRQROEIEITLKRQVAALAGGA---QPAP 328
DB 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVE-----GIVAGGGVALLQSAP 422

RESULT 8
US-09-324-542-114
; Sequence 114, Application US/09324542
; Patent No. 6328978
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
; FILE REFERENCE: 11000.1007c1
; CURRENT APPLICATION NUMBER: US/09/324,542
; CURRENT FILING DATE: 1999-06-02
; EARLIER APPLICATION NUMBER: US 08/997,080
; EARLIER FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 114
; LENGTH: 523
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
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QY 278 ----LGAMPLPTRSELRTLDQRSRGEGKQROEIEITLKQVAAALAGGA-----OPAP 328
Db 324 TKDETTIVEGSGSDAIAGRVAQRAEIEIENSDDY-----DREKQERLAKLAGGV 374
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGGVALLQASAP 422

RESULT 12

US-09-095-855-160

; Sequence 160, Application US/09095855

; Patent No. 6160093

; GENERAL INFORMATION:

; APPLICANT: Tan, Paul

; APPLICANT: Visser, Elizabeth

; APPLICANT: Skinner, Margot

; APPLICANT: Prestidge, Ross

; TITLE OF INVENTION: Compounds and Methods for

; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections

; NUMBER OF SEQUENCES: 208

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Law Offices of Ann W. Speckman

; STREET: 2601 Elliott Avenue, Suite 4185

; CITY: Seattle

; STATE: WA

; COUNTRY: USA

; ZIP: 98121

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/095,855

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/705,347

; FILING DATE: 29-AUG-1996

; APPLICATION NUMBER: 08/873,970

; FILING DATE: 12-JUN-1997

; APPLICATION NUMBER: 08/997,362

; FILING DATE: 23-DEC-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Sleath, Janet

; REGISTRATION NUMBER: 37,007

; REFERENCE/DOCKET NUMBER: 11000.1002c3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 206-269-0565

; TELEFAX: 206-269-0563

; TELEX:

; INFORMATION FOR SEQ ID NO: 160:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 541 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; US-09-095-855-160

Query Match 5.3%; Score 101; DB 4; Length 541;

Best Local Similarity 22.4%; Pred. No. 0.59;

Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABQG-----KAPFGLTDYFTKGLGSSG-TQGW-----DTLSKTDIDMQ 105
Db 158 ELIAEAMDKVGNVITVEESNTFGLQLELTEGMRFDKGYISGYFTDAERQEAVALDEPY 217

QY 106 KAFASGRIEGDTFRLMAFWEMPLDNWORTMSSLSPPVGDLRLNMPHDQVRDSDRI-L 164
Db 218 ILLVSSKV---STVKDLLPLLEKVIQAKGPLIIIAEDVEGEALSTLVNKNIRGTFKSVAV 274

QY 165 SAPGLYTREQARYQDLIRRSLEYQSALNEYNGFFGQLGVKSLERMAFLQQAEGKGYA 224
Db 275 KAPGFGDRR--KAMLQDM--ALLTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323

QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIGHRLVNAQMALKORMSTMVDEV 277
Db 324 TKDETTIVEGSGSDAIAGRVAQRAEIEIENSDDY-----DREKQERLAKLAGGV 374
QY 278 ----LGAMPLPTRSELRTLDQRSRGEGKQROEIEITLKQVAAALAGGA-----OPAP 328
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGGVALLQASAP 422

RESULT 13

US-09-324-542-160

; Sequence 160, Application US/09324542

; Patent No. 6328978

; GENERAL INFORMATION:

; APPLICANT: Watson, James D.

; APPLICANT: Tan, Paul L.J.

; APPLICANT: Prestidge, Ross

; TITLE OF INVENTION: Methods and Compounds for the Treatment

; TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders

; FILE REFERENCE: 11000.1007c1

; CURRENT APPLICATION NUMBER: US/09/324,542

; CURRENT FILING DATE: 1999-06-02

; EARLIER APPLICATION NUMBER: US 08/997,080

; EARLIER FILING DATE: 1997-12-23

; NUMBER OF SEQ ID NOS: 194

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 160

; LENGTH: 541

; TYPE: PRT

; ORGANISM: Mycobacterium vaccae

; US-09-324-542-160

Query Match

Best Local Similarity 22.4%; Score 101; DB 4; Length 541;

Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;

QY 58 DLVRDFMEKLABQG-----KAPFGLTDYFTKGLGSSG-TQGW-----DTLSKTDIDMQ 105
Db 158 ELIAEAMDKVGNVITVEESNTFGLQLELTEGMRFDKGYISGYFTDAERQEAVALDEPY 217

QY 106 KAFASGRIEGDTFRLMAFWEMPLDNWORTMSSLSPPVGDLRLNMPHDQVRDSDRI-L 164
Db 218 ILLVSSKV---STVKDLLPLLEKVIQAKGPLIIIAEDVEGEALSTLVNKNIRGTFKSVAV 274

QY 165 SAPGLYTREQARYQDLIRRSLEYQSALNEYNGFFGQLGVKSLERMAFLQQAEGKGYA 224
Db 275 KAPGFGDRR--KAMLQDM--ALLTGGQVVSERVGL-----SLETADVSLLGQARKVVV 323

QY 225 IESARTLY-----DAWVGCCEEVYAE-EVSSADYAHIGHRLVNAQMALKORMSTMVDEV 277
Db 324 TKDETTIVEGSGSDAIAGRVAQRAEIEIENSDDY-----DREKQERLAKLAGGV 374

QY 278 ----LGAMPLPTRSELRTLDQRSRGEGKQROEIEITLKQVAAALAGGA-----OPAP 328
Db 375 AVIKAGA---ATEVELKERRHIEDAVRNAKAAVEE-----GIVAGGGVALLQASAP 422

RESULT 14

US-09-205-426-160

; Sequence 160, Application US/09205426

; Patent No. 6406704

; GENERAL INFORMATION:

; APPLICANT: Watson, James D.

; APPLICANT: Tan, Paul L. J.

; TITLE OF INVENTION: Compounds and Methods for Treatment and

; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections

; FILE REFERENCE: 11000.1002c4

; CURRENT APPLICATION NUMBER: US/09/205,426

; CURRENT FILING DATE: 1998-12-04

; EARLIER APPLICATION NUMBER: 09/095,855

; EARLIER FILING DATE: 1998-06-11

; EARLIER APPLICATION NUMBER: 08/997,362

; EARLIER FILING DATE: 1997-12-23

EARLIER APPLICATION NUMBER: 08/873,970
EARLIER FILING DATE: 1997-06-12
EARLIER APPLICATION NUMBER: 08/705,347
EARLIER FILING DATE: 1996-08-29
NUMBER OF SEQ ID NOS: 208
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 160
LENGTH: 541
TYPE: PRT
ORGANISM: Mycobacterium vaccae
US-09-205-426-160

Query Match 5.3%; Score 101; DB 4; Length 541;
Best Local Similarity 22.4%; Pred. No. 0.59;
Matches 67; Conservative 50; Mismatches 120; Indels 62; Gaps 15;
QY 58 DIIVDFMEKLAEGQ-----KAFGLTDYFTKGLGSSG--TOGW-----DTLSKTIIDMQ 105
DB 158 ELIAEAMDKVGNVITVEESTNFTGLQBELTEGMRFDKGYISGYFTDAEROEAVLEDPY 217
QY 106 KAFASGRIEGDFTFRRLMAFWEMPLDNWORTWSSLSPPVPGDLLRNPHDOVRDSVDRI-L 164
DB 218 ILLVSKV---STVKDLLPLEKVTQAGKPLIIAEDVEGEALSTLVNKKIRGTFSVAV 274
QY 165 SAPGLGYTREOQARYQDLIRRSLEYQSALNEYNGPFGQLGVKSLERMRAFLQQAEGVA 224
DB 275 KAPGFDRR--KAMLQDM--AILTGOVVSRVGL-----SLETADVSLLGQARKVVV 323
QY 225 IESATLY-----DAWCCCEBVAE--EVSSADYAHIGHRLVNAQMAKORMSTMVDEV 277
DB 324 TKDETTIVGSGSDAIAGRVAQIRAEIENSDDY-----DREKLOERLAKLAGGV 374
QY 278 ----LCAMPLPTRSELRTQDLQESRGSGKQRQRIETLKRQVAALAGGA----QPAP 328
DB 375 AVIKAGA---ATEVELKERKHRIEDAVRNAKAAVE-----GIVAGGVALLQSAP 422

RESULT 15
US-08-726-306A-168
Sequence 168, Application US/08726306A
Patent No. 5958684
GENERAL INFORMATION:
APPLICANT: van Leeuwen, Frederik Willem
APPLICANT: Burbach, Johannes Peter Henri
APPLICANT: Grosveld, Franklin G.
TITLE OF INVENTION: DIAGNOSIS METHOD AND REAGENTS
NUMBER OF SEQUENCES: 189
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: 1 Financial Center
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/726,306A
FILING DATE: 02-Oct-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 95/20080.4
FILING DATE: 02-Oct-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/009,832
FILING DATE: 01-Jan-1996
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 96,048-A (3255/00784)
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 168:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-726-306A-168
Query Match 5.2%; Score 99; DB 2; Length 317;
Best Local Similarity 22.7%; Pred. No. 0.41; Indels 104; Gaps 15;
Matches 75; Conservative 32; Mismatches 119; Indels 104; Gaps 15;
QY 53 PAAPNDLVDRDFMEKLAEOGKAF-----GLTDYFTKGLGSSGTQGWDTLSKTIDDMQKA 107
DB 17 PRAPAQAMMFGGADALLGAPFAPLHGGSLHYALARKGGAGGTRS----- 62
QY 108 PASGRIEGDFTFRRLMAFWEMPLDNWORT--MSSLSPVPGDLLRNPHDQVRDSVDRILSA 166
DB 63 -AAGSSSG-----PFSWTRTSVSVSASP-SRFRGAGAGASSTDSLDTLSNG 106
QY 167 P-----GLGYTREOQARYQDLIRRSLEYQSALNE-YNGFFQQLGVKSLERMRAFLQQA 220
DB 107 PEGCMVAVATSRSEKEQLQ-----ALNDRFAGYIDK--VRQLEAHNRSLEGEA- 152
QY 221 KGVAIESARTLYDAWVGCCBVAEYVSS-----ADVAHIG 257
DB 153 -----AALROOQAGRSANGELYEREVEMRGAVLRGAARGQLRLEQEHLLIEDIAHVRO 206
QY 258 RLVAQM-----ALKORMSTMDEVLGAMPLPTRSELRTLDRLQESRGSGKQRQRIE 311
DB 207 RLDDEARQREAEAAARALARFAQEAEEA-----RVDLQKKAQALQECGYLRRHQE-- 259
QY 312 TLKRQVAALAGGAQ--PAPOASAQSPTRPA 339
DB 260 ----EVELGQIQSGGAAQQAQMAETRDA 285

Search completed: March 23, 2003, 05:54:15
Job time : 36.4558 secs

GenCore version 5.1.4_p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 23, 2003, 06:00:52 ; Search time 39.0318 Seconds
(without alignments)
502.684 Million cell updates/sec

Title: US-09-779-427-2
Perfect score: 1919
Sequence: 1 VNDTANKTSDWLDIQRKWE.....AAPKRSYTRKTKPTTGG 367

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues

Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PTCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/PTCTUS_PUBCOMB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1919	100.0	367	10	US-09-779-427-2
2	124.5	6.5	309	9	US-09-820-843A-24
3	117	6.1	265	9	US-09-987-107-17
4	116	6.0	265	9	US-09-987-107-18
5	113.5	5.9	2910	9	US-10-124-800-2
6	109.5	5.7	829	10	US-09-946-805-8
7	107.5	5.6	1579	10	US-09-801-368-368
8	107	5.6	264	9	US-09-987-107-22
9	105	5.5	546	10	US-09-879-957-14
10	103	5.4	483	9	US-09-974-298-41
11	103	5.4	483	9	US-09-981-353-158
12	103	5.4	483	10	US-09-919-497-79
13	102.5	5.3	681	10	US-09-815-242-11830
14	102	5.3	482	10	US-09-779-307-17
15	101	5.3	266	9	US-09-987-107-19
16	101	5.3	523	9	US-10-051-643-114
17	101	5.3	523	9	US-09-880-505-114
18	101	5.3	541	9	US-10-051-643-160
19	101	5.3	541	9	US-09-880-505-160

20	100.5	5.2	267	9	US-09-987-107-16	Sequence 16, Appl
21	96	5.0	2472	10	US-09-815-242-5064	Sequence 5064, Ap
22	95.5	5.0	329	9	US-09-987-107-14	Sequence 14, Appl
23	95.5	5.0	344	9	US-09-987-107-68	Sequence 68, Appl
24	95.5	5.0	384	9	US-09-765-061B-73	Sequence 73, Appl
25	94	4.9	619	9	US-09-882-774-1	Sequence 1, Appli
26	94	4.9	752	10	US-09-835-081-2	Sequence 2, Appli
27	93.5	4.9	609	10	US-09-828-310-14	Sequence 14, Appl
28	93.5	4.9	693	10	US-09-752-639-154	Sequence 154, App
29	93.5	4.9	693	10	US-09-984-198-154	Sequence 154, App
30	93.5	4.9	786	10	US-09-803-126-6	Sequence 6, Appli
31	93	4.8	254	9	US-10-141-627-4	Sequence 4, Appli
32	93	4.8	366	9	US-09-842-364-3	Sequence 3, Appli
33	93	4.8	366	10	US-09-751-877-3	Sequence 3, Appli
34	93	4.8	366	10	US-09-835-996A-2	Sequence 2, Appli
35	93	4.8	400	10	US-09-835-996A-41	Sequence 41, Appl
36	93	4.8	540	9	US-09-712-363-169	Sequence 169, App
37	93	4.8	540	9	US-10-267-311-4	Sequence 4, Appli
38	93	4.8	540	10	US-09-847-637B-6	Sequence 6, Appli
39	93	4.8	578	10	US-09-925-300-1496	Sequence 1496, Ap
40	93	4.8	639	9	US-10-267-311-17	Sequence 17, Appl
41	93	4.8	648	9	US-10-267-311-29	Sequence 29, Appl
42	93	4.8	690	9	US-10-068-059-10	Sequence 10, Appl
43	93	4.8	709	9	US-10-068-059-8	Sequence 8, Appli
44	93	4.8	724	9	US-10-068-059-12	Sequence 12, Appl
45	93	4.8	746	9	US-10-068-059-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1

US-09-779-427-2
; Sequence 2, Application US/09779427
; Patent No. US20010031489A1

; GENERAL INFORMATION:

; APPLICANT: STEINBUCHER, Alexander

; APPLICANT: LIEBERGESELL, Matthias

; APPLICANT: VALENTIN, Henry

; APPLICANT: PRIES, Andreas

; TITLE OF INVENTION: Process for manufacturing polyhydroxylic fatty acids, and recomb

; TITLE OF INVENTION: bacterial strains for carrying out the process

; FILE REFERENCE: MOBT:152-2 - 11899.0152.DVUS01

; CURRENT APPLICATION NUMBER: US/09/779,427

; CURRENT FILING DATE: 2001-02-08

; PRIOR APPLICATION NUMBER: US 09/420,119

; PRIOR FILING DATE: 1999-10-18

; PRIOR APPLICATION NUMBER: US 08/809,286

; PRIOR FILING DATE: 1997-07-03

; PRIOR APPLICATION NUMBER: WO 96/08566

; PRIOR FILING DATE: 1995-09-15

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 2

; LENGTH: 367

; TYPE: PRT

; ORGANISM: Thiocapsa pfennigii

US-09-779-427-2

Query Match 100.0%; Score 1919; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 3.7e-146;
Matches 367; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VNDTANKTSDWLDIQRKWEYTWSELGRKTLGLEKTPANPWAGALDHHWOTVSPAAPNDLV 60

Db 1 VNDTANKTSDWLDIQRKWEYTWSELGRKTLGLEKTPANPWAGALDHHWOTVSPAAPNDLV 60

OY 61 RDFMEKLAEOQKAPFLGTDYFTKGLGSSGTGQWDTLSKTIDDMQKAFASGRIGEDTFR 120

Db 61 RDFMEKLAEOQKAPFLGTDYFTKGLGSSGTGQWDTLSKTIDDMQKAFASGRIGEDTFR 120

OY 121 RIMATFWEPLDNWORTSSLSVPDGLLRNPHDQVRSVDRILSAPGLGYTREFQARYQ 180

Db 121 RLMAFWEMPLDNWQRTMSLSVPGDLLRNMPHDQVRSDVDRILSAPGLGYTREFQARYQ 180

Qy 181 DLIRSLSYQSALNEYNQFFGQGVKSLERMAFLQGOAEKGVAIESARTLYDAMVWGCE 240

Db 181 DLIRSLSYQSALNEYNQFFGQGVKSLERMAFLQGOAEKGVAIESARTLYDAMVWGCE 240

Qy 241 EYVAEVSADYAHITHGRLVNAQMAKORMSTMVDEVILGAMPLPTRSELRTLDRLQESR 300

Db 241 EYVAEVSADYAHITHGRLVNAQMAKORMSTMVDEVILGAMPLPTRSELRTLDRLQESR 300

Qy 301 GEGKQROEIEITLKQVAALAGGAPQASQAPSTRPAPATAPASAPKRSITTRTKT 360

Db 301 GEGKQROEIEITLKQVAALAGGAPQASQAPSTRPAPATAPASAPKRSITTRTKT 360

Qy 361 TKPTTGQ 367

Db 361 TKPTTGQ 367

RESULT 2

US-09-820-843A-24

Sequence 24, Application US/09820843A

Publication No. US20030039963A1

GENERAL INFORMATION:

APPLICANT: Council of Scientific and Industrial Research

TITLE OF INVENTION: A COMPUTATIONAL METHOD FOR THE IDENTIFICATION OF CANDIDATE PROTEIN

FILE REFERENCE: O63915

CURRENT APPLICATION NUMBER: US/09/820.843A

PRIOR FILING DATE: 2001-03-30

NUMBER OF SEQ ID NOS: 118

SOFTWARE: PatentIn version 3.0

SEQ ID NO 24

LENGTH: 309

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

NAME/KEY: misc feature

OTHER INFORMATION: polyhydroxyalkanoate synthesis protein Phap

NAME/KEY: misc feature

OTHER INFORMATION: GI|9951352

US-09-820-843A-24

Query Match 6.5%; Score 124.5; DB 9; Length 309;

Best Local Similarity 24.4%; Pred. No. 0.018;

Matches 39; Conservative 29; Mismatches 59; Indels 33; Gaps 5;

Qy 218 QAEKGVAIESARTLYDAMVWGCEEYVAEVSADYAHITHGRLVNAQMAKORMSTMVDEV 277

Db 52 KAEEK-----EAKSDVDVDAQVGAAKASARSASAKSKVD--EVRDRALGKWSELEAFDKRLNSA 104

Qy 278 LGAMPLPTRSELRTLDRLQESRGEKQROEIEITLKQVAALAG-GAQPAPQASAPQST 336

Db 105 ISRLGVPSRNEVKEUHSK-----VDLTQIEKLTGVSVKPAKAAKAPAA 150

Qy 337 RPA-----PATAPASAPKRSITTRTKTKPTT 365

Db 151 KPAAPKAAKTAAPKAAKPAKAAKPAKPAKTAKT 190

RESULT 3

US-09-987-107-17

Sequence 17, Application US/09987107

Patent No. US20020156007A1

GENERAL INFORMATION:

APPLICANT: GRAVERSEN, Jonas

TITLE OF INVENTION: APOLIPOPROTEINS ANALOGUES

FILE REFERENCE: GRAVERSENIA

CURRENT APPLICATION NUMBER: US/09/987.107

PRIOR FILING DATE: 2001-11-13

PRIOR APPLICATION NUMBER: US 60/264,022

PRIOR FILING DATE: 2001-01-26

Qy 46 HWWQTVSPAAPNDLVRDF-----MEKLAEGQKAFGLTDTFTYKGLGSSGTQ-----GW 94

Db 20 HFQQDDPQSSWDVRVKDFATVYVEAIKDSGR-----DYVAQFEASALGKQLNLKLLDNW 73

Qy 95 DTLSKTI-----DDMQKAFASGRIEGD----- 116

Db 74 DTLASTLSKVRQLGPGVTQEFWDNLEKETASLRQEMHKDLEEVKQVQPYLDEFQKKWHE 133

Qy 117 --ETFRRLMA-----FWEMPLDNWQRTMSSLSVPGDLLRNMPHDQVRSDVDRILSAPGL 169

Db 134 EVEIYRQKVAPLGEEFREGARQKQVQELQDKLSPLAQEL-----RDRARAHVETL----- 182

Qy 170 GYTREEQARYQDLIRSLSYQ-SALNEYNQFFGQGVKSLERMAFLQGOAEKGVAIESA 228

Db 183 ---RQOLAPYSDDLRQLRTARLEALKEGGSLAEYHAKASEQLKAL--GEKAKPV-LEDL 236

Qy 229 R 229

Db 237 R 237

RESULT 4

US-09-987-107-18

Sequence 18, Application US/09987107

Patent No. US20020156007A1

GENERAL INFORMATION:

APPLICANT: GRAVERSEN, Jonas

TITLE OF INVENTION: APOLIPOPROTEINS ANALOGUES

FILE REFERENCE: GRAVERSENIA

CURRENT APPLICATION NUMBER: US/09/987.107

PRIOR FILING DATE: 2001-11-13

PRIOR APPLICATION NUMBER: US 60/264,022

PRIOR FILING DATE: 2001-01-26

PRIOR APPLICATION NUMBER: DK PA2001 00057

PRIOR FILING DATE: 2001-01-15

PRIOR APPLICATION NUMBER: DK PA2000 01682

PRIOR FILING DATE: 2000-11-10

NUMBER OF SEQ ID NOS: 91

SOFTWARE: PatentIn version 3.1

SEQ ID NO 18

LENGTH: 265

TYPE: PRT

ORGANISM: Sus scrofa

US-09-987-107-18

Query Match 6.0%; Score 116; DB 9; Length 265;

Best Local Similarity 23.2%; Pred. No. 0.069;

Matches 55; Conservative 39; Mismatches 71; Indels 72; Gaps 12;

Qy 46 HWWQTVSPAAPNDLVRDF-----MEKLAEGQKAFGLTDTFTYKGLG-----G 87

Db 20 HFQQDDPQSSWDVRVKDFATVYVDAIKDSGRDY--VAQFEASALGKHLNLKLLDNWDSUG 77

Qy 88 SSGT-----QGWDTL-----SKTIDMQKA-----FASGRIEGDET 118

Db 78 STFTKVRQLGPGVTQEFWDNLEKETEARLQEMSKDLEEVKQVQPYLDDFQNKQOEEMET 137

```
Qy 119 FRLMA-----FWEMPLDNWQRTMSLSVPVGDLLRNMPHDQVRSDVRIILSAPGLGYTR 173
Db 138 YNQKMAPIGAEREGARQKQVQLKSLABEL-----RDLRAHVEAL-----R 183
Qy 174 EQARYQDLIRRSLEYQ-SALNEYNGFFQOLGVKSLERMRAFLOGOAEKGVAIESAR 229
Db 184 QHVAPYSDDLQRMAARFEALKEGGSGLAEYQAKAQEQALKAL--GEKAK-PALEDLR 237

RESULT 5
US-10-124-800-2
; Sequence 2, Application US/10124800
; Patent No. US20020194641a1
; GENERAL INFORMATION:
; APPLICANT: Metz, James
; APPLICANT: Barclay, William
; APPLICANT: Platt, James
; APPLICANT: Kuner, Jerry
; TITLE OF INVENTION: PUFA Polyketide Synthase Systems and Uses Thereof
; FILE REFERENCE: 2997-29
; CURRENT APPLICATION NUMBER: US/10/124,800
; CURRENT FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: 09/231,899
; PRIOR FILING DATE: 1999-01-14
; PRIOR APPLICATION NUMBER: 60/284,066
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 60/298,796
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/323,269
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 2
; LENGTH: 2910
; TYPE: PRT
; ORGANISM: Schizochytrium sp.
US-10-124-800-2

Query Match 5.9%; Score 113.5; DB 9; Length 2910;
Best Local Similarity 21.8%; Pred. No. 2.7;
Matches 88; Conservative 53; Mismatches 111; Indels 151; Gaps 19;

Qy 36 PANPWAGALDHHWQTVSPAAPNDLVRD-----FMEKLAEOGKAFGLTDYFTKGLGGSSGT 91
Db 1104 PAAPVASA-----PAPAVSNELLEKAETVVMVEVLAAK-----TGVEDMIEADMEL 1149
Qy 92 Q---CWDTLTKTIDDMQKAFASGRLEGDETFRRLMAFWEMPLDNWQRTMS----- 138
Db 1150 ETELGDIST-KRVEILSEVQAMLNVEAKD-----VDALSRTRTVGEVNVNMAKA 1196
Qy 139 ---SLSPVP-----GDLRNMPHDQVRSDVRIILSAPGLGYTRREEQARY 179
Db 1197 ETAGSSAPAPAAAAPAKAPAAAAPAVSNELLEKAETVVMVEVLAAK--TGVE----- 1248
Qy 180 QDLIRRSLEYQSALNEYNGFFQOLGVKSLER-----MRAFLOGOAEKGVAIESARTLYD 233
Db 1249 TDMIESDMELET-----ELGIDSIKRVEILSEVQAMLNVEAKDQVDALSRTTR--- 1295
Qy 234 AWGCGCEEVYAEVSSADYAHIHGRLVNAQMA-----LQKQMS 271
Db 1296 --VG-----EVVNAMKAEIAGGSAPAPAAAAPGPAAPAAAAPAVSNELLEKAE 1345
Qy 272 TMVDEVLGA-----MPLPTRSELRTLO--DRLOESRGEGKROQEIETLKR--- 315
Db 1346 TVMVEVLAAKTYGTDMTESDMELETGIDSIKRVEILSEVQAMLNVEAKQVDALSRTTR 1405
Qy 316 -----QVAALAGGAQAPQAQASQPTRRPAPATAPASAAP 350
Db 1406 TVGGEVVDAMKAEIAGGSAPAPAAA-----PAPAAAAPAPAP 1443

RESULT 6
```

```
US-09-946-805-8
; Sequence 8, Application US/09946805
; Patent No. US20020116734A1
; GENERAL INFORMATION:
; APPLICANT: Dickman, Martin B.
; TITLE OF INVENTION: PLANT DERIVED BAG HOMOLOGUES
; FILE REFERENCE: 480140, 469
; CURRENT APPLICATION NUMBER: US/09/946,805
; CURRENT FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 829
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-946-805-8

Query Match 5.7%; Score 109.5; DB 10; Length 829;
Best Local Similarity 19.1%; Pred. No. 1;
Matches 76; Conservative 57; Mismatches 135; Indels 129; Gaps 17;

Qy 3 DTANKTSDWLDIQRKYWETWSELGRKTLGLEKTPANPW-----AGALDHHWQTVSP 53
Db 273 DEAGEVGD-----RKRVE---QLHREKSSLSNSVSSVWENGKHESSTGLIFEHNETLRRH 324
Qy 54 AAPNDLVRDF-----MEKLAEO---GKAFFGLTDYFTKGLGGSSGTQGW 95
Db 325 MSPDEMINHFKIEMNMKRDHYKIQELTEQCFTFKRYLNLTE-----RGSFSFVGKD 378
Qy 96 -----TLSTKTIDDMQKAFASGRLEGDETFRRLMAFWEMPLDNWQ----- 134
Db 379 KELGALKKKIPFVISKLDKILMEDEKFFVSEK--NDAGLKRQLD--SLLLENROLKDSLS 434
Qy 135 ---RTMSSLSLPVPGD---LLRNMPHDQVRSDVRIILSAPGLGYTRREEQARYODLI----- 183
Db 435 DAAEKQSLSQAEADHQLIRKLETD-VEDS-----RNEASIVEDVYCCFVT 480
Qy 184 -----RRSLEYQSALNEYNGFFQOLGVKSLERMRAFLOGOAEKGVAIESARTLY 232
Db 481 EFVGOIKCTQKQTDLEHSMLEAREAYELLEDLARKEARKSKEDFEDSCVKSVMEE----- 535
Qy 233 DAWGCCCEEVYAEVSSADYAHIHGRLVNAQMAKQRMSTWVDEV-----LCA 280
Db 536 -----CCSVIKYEAKEA-----HKKIVELNLHVTEKGTLRSEMWVDRKERLKEEHLRLGC 585
Qy 281 MPLPTRSELRTLODRLOESRGEGKROQEIETLKRQV 317
Db 586 LVKEENLVQTAENNLATERKKIEVVSSQINDLQSQV 622

RESULT 7
US-09-801-368-368
; Sequence 368, Application US/09801368
; Patent No. US20020128250A1
; GENERAL INFORMATION:
; APPLICANT: Busby, Robert
; APPLICANT: Cali, Brian
; APPLICANT: Hecht, Peter
; APPLICANT: Holtzman, Doug
; APPLICANT: Madden, Kevin
; APPLICANT: Maxon, Mary
; APPLICANT: Milne, Todd
; APPLICANT: No. US20020128250A1man, Thea
; APPLICANT: Royer, John
; APPLICANT: Salama, Sofie
; APPLICANT: Sherman, Amir
; APPLICANT: Silva, Jeff
; APPLICANT: Summers, Eric
; TITLE OF INVENTION: Methods
; FILE REFERENCE: 109272, 147
; CURRENT APPLICATION NUMBER: US/09/801,368
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 09/487,558
```

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; PRIOR FILING DATE: 2000-01-19
; PRIOR APPLICATION NUMBER: US 60/160,587
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 368
; LENGTH: 1579
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-801-368-368

Query Match          5.6%; Score 107.5; DB 10; Length 1579;
Best Local Similarity 27.0%; Pred. No. 3.6;
Matches 41; Conservative 16; Mismatches 58; Indels 37; Gaps 6;

Qy 10 DWL-----DIQKYWETWSELGRKTLGLEKTPANPWAGALDHHWQTVSPAAPNDLV 60
Db 346 DWLRDNDNDQCEIEDEWH--SIIGSEDL-LSKLLQHPVNNRFEWQMTLSKVLKGDIV 402

Qy 61 RDFMEKLAEOQKAFGLTDYFTFKGLGSSGTQGWDTL-----SKTIDDMQKAFASG 111
Db 403 RNEKTKIANQK-----GPGFNTQFSDDIWIELKAMNGRTVEDONKSLRIF 449

Qy 112 RIEGDETFRRLMAFW---EMPLDNWQRTWSSL 140
Db 450 RDSTDVSFQEIWMAFKLEDNMSADAAETIKSL 481

RESULT 8
US-09-987-107-22
; Sequence 22, Application US/09987107
; Patent No. US20020156007A1
; GENERAL INFORMATION:
; APPLICANT: GRAVERSEN, Jonas
; APPLICANT: MORSTRUP, Soren
; TITLE OF INVENTION: AFOLIOPROTEINS ANALOGUES
; FILE REFERENCE: GRAVERSENIA
; CURRENT APPLICATION NUMBER: US/09/987,107
; CURRENT FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/264,022
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: DK PA2001 00057
; PRIOR FILING DATE: 2001-01-15
; PRIOR APPLICATION NUMBER: DK PA2000 01682
; PRIOR FILING DATE: 2000-11-10
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-987-107-22

Query Match          5.6%; Score 107; DB 9; Length 264;
Best Local Similarity 20.6%; Pred. No. 0.36;
Matches 71; Conservative 40; Mismatches 112; Indels 122; Gaps 16;

Qy 35 TPANPWAGALDHHWQTVSPAAPNDLVRF-----MEKLAEOQKAFGLTDYFTFKGLGSSG 90
Db 14 TGSQAW-----HVWQODEPQSQWDKVKOFANVYVDAVKDSGR-----DYVSQFESSSLG 62

Qy 91 TQ-----GWDTLSTKIDDMQKAFASGRIEGDETFRRLMAFWEMPLDNWQRTWSSLSPV 143
Db 63 QQLNLNLENWDTLGSVSQLQRL--GPLTRD-----FW-----DNLEKET----- 102

Qy 144 PGDLLRNPHDOVRSDRILSAPGLGYTREQARYQDLIRLSLEYQSALNE-----YNGF 199
Db 103 -----DWVROEMNKDLEE-----VKQKVQPYLD-----EFQKKWKEDVELYRQK 141

Qy 200 FGQLGVKSILERRAFLOQAEKVAIESARTLYDAWGCCEBYAEVSSADYAHIGHRL 259
Db 142 VAPLGAELQESARQKLQ-----BLQGRLL 164
```

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Qy 260 VNAQWALKQRMSTWDEVLGAMPLPTRSELRTLODRLOESRGEGRQRQRIETL----- 313
Db 165 SPVAEEFRDRMRTHVDSL-----RTQLAPHSEQRRESLAORLAELKSNPTLNVEYHTR 216

Qy 314 -KRQVAALAGGAQAPQASAPSTRPAPAT--APAASAAPKRSTT 355
Db 217 AKTHLKTIGEKARPALE-DLRHSLMPMLETLTKTAQSVIDKASET 260

RESULT 9
US-09-879-957-14
; Sequence 14, Application US/09879957
; Patent No. US20020034755A1
; GENERAL INFORMATION:
; APPLICANT: SPARKS, Andrew B.
; HOFFMAN, No. US20020034755A1h
; KAY, Brian K.
; FOWLIKES, Dana M.
; MCCONNELL, Stephen J.
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL
; DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND
; USING SAME
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/879,957
; FILING DATE: 13-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/630,915
; FILING DATE: 03-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Mirock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 1101-174
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 546 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-879-957-14

Query Match          5.5%; Score 105; DB 10; Length 546;
Best Local Similarity 19.8%; Pred. No. 1.4;
Matches 89; Conservative 67; Mismatches 159; Indels 134; Gaps 21;

Qy 1 VNDTANKTSDW-----LDIORKYWETWSELGRKTLGLEKTPANPWA----- 41
Db 29 VNDVSEKQRWGAKTVOGSGHQEHINHLKRENVQE--HQTLEKELETPGKASHGYG 86
Qy 42 -----GALDHWQOT--VSPAAPNDLVRFMEKLAEO-----GKAFFGLTD 79
Db 87 KFGVEQDRMDRSANGHEVQSKLSKHCSDVSRGEGGFGVQMDRVDQSAVGFEQKTE 146
Qy 80 Y-----FTKGLGSSGTQ-----GWDTLSTK-IDDMQKAFASG-----RIEGDET 118
```

Db 147 KHASQDYSSGFGGKYGVQADRVDSKSAVGFDYQGGTEKHESQKYSKGGFGGKYGIDKDKV 206
Qy 119 FRRLMAFWEMPLDNQRTWSSLSPPVGLLNMPHDQVRDSVDRILSAPGLGYTRREEQAR 178
Db 207 DKSAGVF-----EYQG-----KTEKHESQKDYKVGFGGKFGVQTDQDKCA 247
Qy 179 YODLIRRSLEYQSALNEY-NGFFGOLGVKSLERMPAFLOQQAEGKVAIESARTLYDAWVG 237
Db 248 LGWDHQLQLHESQKDYKTFGGKFGVQS-ERQ-----DSSAVGFD----- 288
Qy 238 CCEEVYAEVSSADYAHIGHRLVNAQMAKQKRMSTWDEVL-----GAMPLPT----- 285
Db 289 -YKERLAKHEPQDYAKGFGGKYGVQKDMDKNASTFEVQVPSAYQKTVPIEAVTSKT 347
Qy 286 ---RSELATL-QDRQESRGECK-----RQOEIETLKQVAALAGGAQAPQASQA 333
Db 348 SNIRANFENLAKERQEDRRKAEABEAOAKMAKERQEQEARKKLEEQARAKQOTPPAS-- 405
Qy 334 PSTRPAPATAPAA-----SAAPKRSTTTTR 358
Db 406 PSPQIEDRPSPPIYEDAAPKAEPSYR 434

RESULT 10

US-09-974-298-41
; Sequence 41, Application US/09974298
; Patent No. US20020156263A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Hwei-Mei
; TITLE OF INVENTION: GENES EXPRESSED IN BREAST CANCER
; FILE REFERENCE: PA-0037 P
; CURRENT APPLICATION NUMBER: US/09/974,298
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,331
; PRIOR FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 41
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020156263A1 3355973CD1
US-09-974-298-41

Query Match 5.4%; Score 103; DB 9; Length 483;
Best Local Similarity 20.8%; Pred. No. 1.7;
Matches 85; Conservative 59; Mismatches 154; Indels 110; Gaps 18;

Qy 11 WLDIQRKYWET-WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQONKMLETKWSLLQOQKTARSNDNMNPFESYINNLRQLETLOQEKUKLAEIGNM-- 168
Qy 47 WMQTVSPAAPNDLVRDFMEKLAEOGKAFGLTDYFTKGLGGSSGTQGWDTLSKTTIDD--M 104
Db 169 -----QGLVEDFKNYEDEINKRTEMENEFV-----LIKKDVDEAYM 205
Qy 105 OKAFASGRIG-DETFRLMAFWEMPLDNQRTWSSLSPPVGLLNMPHDQVRD-SVDR 162
Db 206 NKVELESRLGLTDINFRLQYEEIRELQSQISDTSV-----LSMDNSRLDMD 258
Qy 163 ILSAPGLGYTREQARYODLIRRSLE-----YQSALNEYNGFFGOLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEASMYQIKYELQSLAGKHGDDLRRTKTEISEM 310
Qy 205 VKSLERMPAFLOQQAEGKVAIESARTLYDAWVGCCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNINISRLQAEIEGLKGORASLEAA--IAD-----AEORGELAIDKANAKLSELEA 358
Qy 265 AL---KQRMSTWDEV--LGAMPLTRSELRLTQDRL--QESRGEKGRQORQIETLKROV 317
Db 359 ALQRAQODMARQLREYQELMNVKALDIEIATYRKLLEGEESRLESQMNMSIHT--KTT 416
Qy 318 AALAGGAQAPQASQAPSTRPAPAT--APAASAAPKSTTTTTRTKK 362
Db 417 SGYAGGLSSAYGGLTSPGLSYLSGSSFGSGAGSSFSRTSSRAVVVK 464

RESULT 12

US-09-919-497-79
; Sequence 79, Application US/09919497
; Patent No. US20020106662A1
; GENERAL INFORMATION:
; APPLICANT: Mutter, George L.
; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
; FILE REFERENCE: B0801/7225
; CURRENT APPLICATION NUMBER: US/09/919,497
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/221,735

Db 359 ALQRAQODMARQLREYQELMNVKALDIEIATYRKLLEGEESRLESQMNMSIHT--KTT 416
Qy 318 AALAGGAQAPQASQAPSTRPAPAT--APAASAAPKSTTTTTRTKK 362
Db 417 SGYAGGLSSAYGGLTSPGLSYLSGSSFGSGAGSSFSRTSSRAVVVK 464

RESULT 11

US-09-981-353-158
; Sequence 158, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 158
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 3355973CD1
US-09-981-353-158

Query Match 5.4%; Score 103; DB 9; Length 483;
Best Local Similarity 20.8%; Pred. No. 1.7;
Matches 85; Conservative 59; Mismatches 154; Indels 110; Gaps 18;

Qy 11 WLDIQRKYWET-WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQONKMLETKWSLLQOQKTARSNDNMNPFESYINNLRQLETLOQEKUKLAEIGNM-- 168
Qy 47 WMQTVSPAAPNDLVRDFMEKLAEOGKAFGLTDYFTKGLGGSSGTQGWDTLSKTTIDD--M 104
Db 169 -----QGLVEDFKNYEDEINKRTEMENEFV-----LIKKDVDEAYM 205
Qy 105 OKAFASGRIG-DETFRLMAFWEMPLDNQRTWSSLSPPVGLLNMPHDQVRD-SVDR 162
Db 206 NKVELESRLGLTDINFRLQYEEIRELQSQISDTSV-----LSMDNSRLDMD 258
Qy 163 ILSAPGLGYTREQARYODLIRRSLE-----YQSALNEYNGFFGOLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEASMYQIKYELQSLAGKHGDDLRRTKTEISEM 310
Qy 205 VKSLERMPAFLOQQAEGKVAIESARTLYDAWVGCCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNINISRLQAEIEGLKGORASLEAA--IAD-----AEORGELAIDKANAKLSELEA 358
Qy 265 AL---KQRMSTWDEV--LGAMPLTRSELRLTQDRL--QESRGEKGRQORQIETLKROV 317
Db 359 ALQRAQODMARQLREYQELMNVKALDIEIATYRKLLEGEESRLESQMNMSIHT--KTT 416
Qy 318 AALAGGAQAPQASQAPSTRPAPAT--APAASAAPKSTTTTTRTKK 362
Db 417 SGYAGGLSSAYGGLTSPGLSYLSGSSFGSGAGSSFSRTSSRAVVVK 464

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; PRIOR FILING DATE: 2000-07-31
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 483
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-497-79

Query Match          5.4%; Score 103; DB 10; Length 483;
Best Local Similarity 20.8%; Pred. No. 1.7; Indels 110; Gaps 18;
Matches 85; Conservative 59; Mismatches 154;

Qy 11 WLDIQRYWET--WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQNKMLETKWSLLOQKTAARSNDWNMFESYINNRRQLETLQEKLKLEAELGNM-- 168

Qy 47 WQVTPAAPNDLVRDFMEKLAEOQKAFGLGTYTKLGGSSGTQGWDTLSKTTDD--M 104
Db 169 -----QGLVEDFNKYDEINKRTMENEFV-----LIKQDVDEAYM 205

Qy 105 OKAPASGRIEG--DETFRRLMAFWEMPLDNWORTMSSLSVPVGDLLRNMPHQVDRD--SVDR 162
Db 206 NKVELESRLGUTDINFRLQRYEIEIRELQSIQSDTSVW-----LSMONSRSLDWDS 258

Qy 163 ILSAPGLGYTREEOQARYODLIRRSLE-----YQSALNEYNGFFGOLG----- 204
Db 259 IIA-----EVKAQYEDIANRSRAEAESMYQIKYEELQSLAGKHGDDLRRTKTEISEM 310

Qy 205 VKSLERMAFLQOQAEKVAIESATRLVDWVGCCEEVYAEVSSADYAHIGHRLVNAQM 264
Db 311 NNNISRLQAEIEGLKGRASLEAA--IAD-----AEQRGELAIKDNAKLSELEA 358

Qy 265 AL--KORMSTWVDEV--LGMPLPTRSLRLODRL--QESRGGKQROQRIETLKRQV 317
Db 359 ALQRAKQDWARQLREYQELMNVKLDLIEIATYRKLLEGEESRLSGNQNSIHT--KIT 416

Qy 318 AALAGGAQPAQASQPSRTPAPAT---APAASAAPKRSSTTTTTRTKK 362
Db 417 SGVAGGLSSAYGGLTSPGLSYLSLGSSFGAGGSSFSRTSSRAVVVK 464

RESULT 13
US-09-815-242-11830
; Sequence 11830, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zykkind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA 011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11830
; LENGTH: 681
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-815-242-11830

Query Match          5.3%; Score 102.5; DB 10; Length 681;
Best Local Similarity 19.9%; Pred. No. 2.9; Indels 107; Gaps 17;
Matches 71; Conservative 64; Mismatches 114;

Qy 88 SSGTQGWDTLSKTTDDMKAFASGRIE-----GDETFRRLMAFWEMPLDNWORTM 137
Db 96 ASRTKQVET--RELLDNVOYSPTRGRYKYVYLIDEVHMLSSHFNALLKTLBEPHPHVKFL 154

Qy 138 SSLSP--VPGDL-----LRNMPHDQVRSVDRILSAPGLGYTREOQARYQDILRR-- 185
Db 155 ATTDPOKLPVTILSRCLQFSLKNMPPRVERVHEHLTHVLGAENVPF--EDDALW--LLGRAA 210

Qy 186 --SLEYQSALNEYNGFFGOLGVKSLE-----RMRAFLOGQAEKGVAIESA 228
Db 211 DGSWRDAMSLTDQIAFGEKGVLAAADVRAMLGTLDHGQVYGVLOALLLEGDAR--ALLEAV 268

Qy 229 RTLYDAMVGCCEEVYAEVSSADYAHIGHRLVNA--QMAKQRMSTWVDE----- 276
Db 269 RHL-----AEQ--GPDNGGVLAELNLVHLRVIAIAQALPEADINCGODRERVLA 314

Qy 277 -----VLGAMPLPTRSE-----LRTLQRLQESRGGKQROQRI 310
Db 315 LAQALPAEDVOFYQMGILIGRRDLPLAPDPRSGFEMVILLRMLAFRPADADGVPTPLKDL 374

Qy 311 ETLKRQV-----AALAGGAQPAQASQAPS---TRP--APATAPASAAPKRSSTTTT 357
Db 375 GISKATTDTPANSPVAGASAPVATVAPVVAAPVEAPAAPPAAPSAPPAVEAR 430

RESULT 14
US-09-779-307-17
; Sequence 17, Application US/09779307
; Patent No. US20020137675A1
; GENERAL INFORMATION:
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Majumder, Kumud
; APPLICANT: Vernet, Corine
; APPLICANT: Prayaga, Sudhirdas
; TITLE OF INVENTION: Polynucleotides and Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-662 US
; CURRENT APPLICATION NUMBER: US/09/779,307
; CURRENT FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/180,880
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 60/181,044
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 60/181,656
; PRIOR FILING DATE: 2000-02-10
; PRIOR APPLICATION NUMBER: 60/182,795
; PRIOR FILING DATE: 2000-02-15
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 482
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-779-307-17

Query Match          5.3%; Score 102; DB 10; Length 482;
Best Local Similarity 20.8%; Pred. No. 2;
Matches 85; Conservative 58; Mismatches 155; Indels 110; Gaps 18;

Qy 11 WLDIQRYWET--WSELGR-----KTLGLEKTPANPWAGALDH 46
Db 111 FLEQNKMLETKWSLLOQKTAARSNDWNMFESYINNRRQLETLQEKLKLEAELGNM-- 168
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Db      167 PLEQONKMLETKWSLLOOQTARSNDNMNMFESYNNLRROLETGLGOEKLKLEAELGNM-- 167
Qy      47 WMQTVSPAAPNDLVDRPMEKLAEOGKAFFGLTDYFTFKGLGGSGTQGWDTLSTKTIDD--M 104
Db      168 -----OQLVEDFKNKYEDIEINKRTEMENEFEV-----LIKKVDDEAYM 204
Qy     105 OKAFASGRIEG-DITFRRLMAFWEMPLDNKHORTWSSLSLPVPGDLLRMHPHDQVRD-SVDR 162
Db     205 NKVELESREGLGTDEINFLRQLYEEETIRELQSQISDTSVY-----LSMDNSRSRLDMS 257
Qy     163 ILSAPGLGYTRREECARQYODILIRSLSE----YQSALNEYNGFFGOLG----- 204
Db     258 IIA-----EVKAQYIEDIANRSRAEAESMYQIKEYELOSLAGKHGDLLRTTKTEISEM 309
Qy     205 VKSLERMRAFLOQAOKXGVAIIESARTLYDAWVGCCBEVYAEBESSADYAHIGHRLVNAQM 264
Db     310 NNPTISRLOAEITEGLKGORASLEAA--IAD-----AEQGELELAKDANAKULESEA 357
Qy     265 AL----KORMSTMWDEV--LGAMPLPTRSELRTLQDRL--OESREGKQRQEITETLKQOV 317
Db     358 ALQRAKDQMARQLREYQELMNVLKALDIETATRYKULLEGESRLESGMQNMSIHT--KTT 415
Qy     318 AALAGGAQPAPQASAQSPTRPATPAPAT-----APAASAAPKRSTTTTTRKTKK 362
Db     416 GGYAGGLSSAYGGGLTSPCLSYVSLGSSFGSCAGASSFSRTSSSRAVVVK 463

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RESULT 15

US-09-987-107-19
; Sequence 19, Application US/09987107
; Patent No. US20020156007A1

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1 GENERAL INFORMATION:
2
3 APPLICANT: GRAVERSEN, Jonas
4 APPLICANT: MOESTRUP, Soren
5
6 TITLE OF INVENTION: APOLIPOPROTEINS ANALOGUES
7
8 FILE REFERENCE: GRAVERSENIA
9
10 CURRENT APPLICATION NUMBER: US/09/987,107
11 CURRENT FILING DATE: 2001-11-13
12
13 PRIOR APPLICATION NUMBER: US 60/264,022
14 PRIOR FILING DATE: 2001-01-26
15
16 PRIOR APPLICATION NUMBER: DK PA2001 00057
17 PRIOR FILING DATE: 2001-01-15
18
19 PRIOR APPLICATION NUMBER: DK PA2000 01682
20 PRIOR FILING DATE: 2000-11-10
21
22 NUMBER OF SEQ ID NOS: 91
23
24 SOFTWARE: Patentin version 3.1
25
26 SEQ ID NO 19
27
28 LENGTH: 266
29
30 TYPE: PRT
31
32 ORGANISM: Canis familiaris
33
34 US-09-987-107-19

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Query Match	5.3%	Score 101;	DB 9;	Length 266;
Best Local Similarity	20.2%	Pred. No. 1.1;		
Matches 50;	Conservative 28;	Mismatches 61;	Indels 108;	Gaps 10;
Qy	46	HWQTVSPAAPNDLVRD----	FMEKLAQGGKAFGLTDYFTKGLGGSGTO-----	GW 94
Db	20	HFQQODEPQSPWDRVKDLATVYVDVKDSGR-----	DYVAQFEASALGKQLNLKLDNW 73	
Qy	95	DTLSXTI-----	DDMKAFAS 110	
Db	74	DSLSTVTKLREQIGPVTQEPWDNLEKETEVLRQEMSKDLEEVKQVOPYLDLDFOKKQW- 132		
Qy	111	GRIEGDETFRRLLMAFWEMPL-----	DNWQRTMSSLSVPVGGDLLRMHPHDQVRDSVD 161	
Db	133	---BEVELYRQKVA---PLGSELREGARQKLQELQKLSPLAEL-----	RDRARTHVD 180	
Qy	162	RILSAPGLGYTREBOARQODLIRRL-----	EYOSALNEYNGPFGQLGV 205	
Db	181	AL-----	RAQLAPYSDDLRLERLARLEALKEGGGASLAEYHARASEQLSALGEKAR 231	
Qy	206	KSLEMR 212		

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GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: March 23, 2003, 05:51:37 ; Search time 32.5442 Seconds
(without alignments)
322.761 Million cell updates/sec

Title: US-09-779-427-3
Perfect score: 1884
Sequence: 1 VSPFPIDIRPDKLTEAMLEY.....SGKAQEGVTPAIGRWLNERG 357

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pap:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pap:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1884	100.0	357	3	US-08-809-286B-3
2	287.5	15.3	574	2	US-08-756-317-4
3	287.5	15.3	600	2	US-08-756-317-3
4	287.5	15.3	638	2	US-08-756-317-2
5	274	14.5	604	2	US-08-756-317-6
6	273.5	14.5	577	2	US-08-756-317-13
7	270.5	14.4	594	2	US-08-910-856-2
8	264.5	14.0	589	2	US-08-756-317-5
9	258	13.7	561	2	US-08-756-317-14
10	257	13.6	601	2	US-08-756-317-15
11	234.5	12.4	590	2	US-08-756-317-12
12	222.5	11.8	559	2	US-08-756-317-10
13	222.5	11.8	5215	4	US-09-105-537-2
14	221.5	11.8	559	2	US-09-052-339-1
15	221.5	11.8	559	4	US-09-385-742B-1
16	216.5	11.5	559	2	US-08-756-317-7
17	196.5	10.4	560	2	US-08-756-317-8
18	193.5	10.3	624	2	US-08-756-317-9
19	188.5	10.0	560	4	US-09-385-742B-6
20	176	9.3	560	2	US-08-756-317-11
21	129	6.8	251	4	US-09-345-469-4
22	104	5.5	299	4	US-09-134-001C-4414
23	102	5.4	262	2	US-08-602-359A-38
24	100	5.3	252	4	US-09-134-001C-5644
25	100	5.3	802	4	US-09-134-001C-3741
26	99.5	5.3	358	1	US-08-034-650-10
27	99.5	5.3	358	1	US-08-449-015-10

28	97	5.1	248	3	US-08-935-263-14	Sequence 14, Appl
29	97	5.1	248	4	US-09-594-185-14	Sequence 14, Appl
30	95.5	5.1	541	4	US-08-687-590-28	Sequence 28, Appl
31	95.5	5.1	541	4	US-09-311-311C-25	Sequence 25, Appl
32	94.5	5.0	532	4	US-09-071-035-88	Sequence 88, Appl
33	94.5	5.0	553	4	US-09-071-035-86	Sequence 86, Appl
34	93.5	5.0	1257	1	US-08-049-783-2	Sequence 2, Appl
35	93.5	5.0	1257	1	US-08-158-232-6	Sequence 6, Appl
36	93.5	5.0	1257	1	US-08-304-626-6	Sequence 6, Appl
37	93.5	5.0	1257	1	US-08-316-301A-6	Sequence 6, Appl
38	93.5	5.0	1257	2	US-08-611-928-6	Sequence 6, Appl
39	93.5	5.0	1257	3	US-09-173-891-6	Sequence 6, Appl
40	93.5	5.0	1257	4	US-09-076-137-6	Sequence 6, Appl
41	93.5	5.0	1257	5	PCT-US92-03624-6	Sequence 6, Appl
42	91.5	4.9	297	2	US-08-602-359A-37	Sequence 37, Appl
43	91.5	4.9	796	4	US-08-868-699A-2	Sequence 2, Appl
44	91.5	4.9	796	4	US-09-757-014-2	Sequence 2, Appl
45	91	4.8	1802	4	US-09-322-478-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-08-809-286B-3
; Sequence 3, Application US/08809286B
; Patent No. 6011144
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic
; TITLE OF INVENTION: fatty acids, and recombinant bacterial strains for
; TITLE OF INVENTION: carrying out the process
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/809,286B
; FILING DATE: 3-JUL-97
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patricia A. Kammerer
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: MOBT-152 (28-21(15115)A)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 357 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-809-286B-3

Query Match 100.0%; Score 1884; DB 3; Length 357;
Best Local Similarity 100.0%; Pred. No. 9.8e-198;
Matches 357; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VSPFPIDIRPDKLTEAMLEYSRKLGEGMONLLKADQIDTGTTPKDVVHREDKLVLYR 60
Db 1 VSPFPIDIRPDKLTEAMLEYSRKLGEGMONLLKADQIDTGTTPKDVVHREDKLVLYR 60

Query Match 15.3%; Score 287.5; DB 2; Length 600;
Best Local Similarity 25.9%; Pred. No. 1.7e-22;
Matches 97; Conservative 53; Mismatches 171; Indels 53; Gaps 10;

QY 8 IRPDKLTLEMYSKLGEQMLLKADQIDTGVTPKDVVHRED--KLVLYRYPQAQVA 65
DB 210 LRPTMSDETAFAEVRGL-----AMTPGVVFQNALMQLILY---APTTPK 251
QY 66 TOTIPLLIYALVNRPMYTDIOEDRSTIKGLLATQDVYLIDWGYPDQADRALTLDDYIN 125
DB 252 VHKRPLLVPPWINKFYILDTEKNSLIKVMYDQGFVFSVWNPDAGLAETRFEDYLS 311
QY 126 GYIDRCVDYLRETHGVDQVNLGICOGGAFSLCYTAL-----HSEKVKNLVMTVTPVDFOT 181
DB 312 OGFLAAMEVMTETGORALGLVGYCIGGTLTACTLAVLAARDHRVKSATLTLTLVDFSE 371
QY 182 PGNLLSAMVQNVVDVLAVDTM---GNIPGELLNWTFLSLKPFSLTGCKYVNMVMDLLDDED 238
DB 372 PGE-LGVFIDPPLLDALDDQARDGGLDGLLSMAFNMLRNDLWISVFNNYLL-----G 426
QY 239 KVNFLRMEKWFIDSPDQAGETTFQIKDFYQNRGFN--GGVLIGDQEVLDNRNIRCPVLN 297
DB 427 KTPAAFDLLYMWGDSRMPAAMQRYLYREMYQKNKLVQPGGLTVLGHALDLRRIRTPVYL 486
QY 298 IYPMQDHLVPPDASKALAGLTSSDYETELAPGCHIGIYVSGKAQ----- 342
DB 487 LSARDHIAPTWTSTFKATGLYGGPLRVFLA-GSGHIAGVINPPAKARYGYWTNADTSLEA 545
QY 343 ----EGVTPAIGRW 352
DB 546 ESWLEGATPHGGSW 559

RESULT 4
US-08-756-317-2
; Sequence 2, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOST:008
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 638 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-2

Query Match 15.3%; Score 287.5; DB 2; Length 638;
Best Local Similarity 25.9%; Pred. No. 1.8e-22;
Matches 97; Conservative 53; Mismatches 171; Indels 53; Gaps 10;

QY 8 IRPDKLTLEMYSKLGEQMLLKADQIDTGVTPKDVVHRED--KLVLYRYPQAQVA 65
DB 248 LRPTMSDETAFAEVRGL-----AMTPGVVFQNALMQLILY---APTTPK 289
QY 66 TOTIPLLIYALVNRPMYTDIOEDRSTIKGLLATQDVYLIDWGYPDQADRALTLDDYIN 125
DB 250 VHKRPLLVPPWINKFYILDTEKNSLIKVMYDQGFVFSVWNPDAGLAETRFEDYLS 349
QY 126 GYIDRCVDYLRETHGVDQVNLGICOGGAFSLCYTAL-----HSEKVKNLVMTVTPVDFOT 181
DB 350 OGFLAAMEVMTETGORALGLVGYCIGGTLTACTLAVLAARDHRVKSATLTLTLVDFSE 409
QY 182 PGNLLSAMVQNVVDVLAVDTM---GNIPGELLNWTFLSLKPFSLTGCKYVNMVMDLLDDED 238
DB 410 PGE-LGVFIDPPLLDALDDQARDGGLDGLLSMAFNMLRNDLWISVFNNYLL-----G 464
QY 239 KVNFLRMEKWFIDSPDQAGETTFQIKDFYQNRGFN--GGVLIGDQEVLDNRNIRCPVLN 297
DB 465 KTPAAFDLLYMWGDSRMPAAMQRYLYREMYQKNKLVQPGGLTVLGHALDLRRIRTPVYL 524
QY 298 IYPMQDHLVPPDASKALAGLTSSDYETELAPGCHIGIYVSGKAQ----- 342
DB 525 LSARDHIAPTWTSTFKATGLYGGPLRVFLA-GSGHIAGVINPPAKARYGYWTNADTSLEA 583
QY 343 ----EGVTPAIGRW 352
DB 584 ESWLEGATPHGGSW 597

RESULT 5
US-08-756-317-6
; Sequence 6, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062

REFERENCE/DOCKET NUMBER: MOBT:008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 787-1400
TELEFAX: (713) 787-1440
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 604 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-756-317-6

Query Match 14.5%; Score 274; DB 2; Length 604;
Best Local Similarity 25.0%; Pred. No. 5.1e-21;
Matches 92; Conservative 63; Mismatches 163; Indels 50; Gaps 13;

Qy 16 EMLEYSRKLGEQMQLLKADQI-----DTGYTPKDVVHREDKLVLYRYPQAQVATQTI 69
Db 202 KMLQEDLEAGGQQLRVQTDLSAFTFGKDVAVTPGEVIFRNDLMELIQY---APTETV 257
Qy 70 ---PLLIYVALVNRPMYTDIQEDRSTIKGLATGQDVYLDWGYDQADRALTLDDYING 126
Db 258 LKRPLLIYPPWINKYIILDNPKSLIGWVSGQITVFVISHVWDERHRDKDPESYVRE 317
Qy 127 YIDRCVDVLYRETHGVQDVNLLIGICGG---APSLCY-TALHSEKVNLYVTWVTPVDFQTP 182
Db 318 GIETAIIDMIGVATGETDVAAGYCVGGTLLAVTLAYQAATGNRRIKSATFTLTQVDFTHA 377
Qy 183 GNLLSAWQNVQDVLDVDTM---GNIPGELLNWTLSLKPFSLTQCKYVNMVLDLDDDEK 239
Db 378 GD-LKVFADQEGQIKAEIRMAHSHGLEGARMANFNMLRPNDLINSYVN-----426
Qy 240 VKNFLR-----MEKWFIDSPDQAGETFRQFIKDFYQNRNGFINGVGLIGDOEVDLRNI 291
Db 427 --NYVRGKAPAFDLYLNADATRPANHSFYLRNCYLNNTLAGQWVLGNVRLDLKKV 484
Qy 292 RCPVNIYPMQHLVPPDASKALAGLTSSDYTELAFPG-GHIGIYVS---GKAQEGVT- 346
Db 485 KVPVFNLATREDHIAF--ALSVEGSAKFGKVDYVLAGSGHAGVAVPPGPKAKYGFRT 542
Qy 347 --PAIGRW 352
Db 543 GGPARGRF 550

RESULT 6

US-08-756-317-13
Sequence 13, Application US/08756317
Patent No. 5849894
GENERAL INFORMATION:
APPLICANT: Clemente, Thomas E.
APPLICANT: Kishore, Ganesh M.
APPLICANT: Mistry, Timothy A.
APPLICANT: Stark, David M.
TITLE OF INVENTION: Improved Rhodospirillum Rubrum
TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/756,317
FILING DATE: 25-NOV-1996
CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,693
FILING DATE: 29-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Patterson, Melinda L.
REGISTRATION NUMBER: 33,062
REFERENCE/DOCKET NUMBER: MOBT:008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (713) 787-1400
TELEFAX: (713) 787-1440
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 577 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-756-317-13

Query Match 14.5%; Score 273.5; DB 2; Length 577;
Best Local Similarity 23.3%; Pred. No. 5.3e-21;
Matches 93; Conservative 68; Mismatches 167; Indels 71; Gaps 14;
Qy 6 IDIRPDKLITEMLYSRKLGEQMQL-----LKADQIDT-----GVTPKDV 46
Db 153 ITTNPQLYRETVASGANLVKGMQMLAEDIAAGRGELRLQTDTSKFAIGENIAITPGKV 212
Qy 47 VHRDEKLVLYRYPQAQVATQTI---PLLIYVALVNRPMYTDIQEDRSTIKGLLATGQDV 103
Db 213 IAQNDVCOVLQY---EASTETVLKRPILICPPWINKFYVLDLNPKEFSIKWAVDQGTV 268
Qy 104 YLIDWGYDQADRALTLDDYINGYIDRCVDYLYRETHGVQDVNLLIGICGGAFSLCYTALH 163
Db 269 FVISWVNPDERHASKDWEAVAREGIGFALDIEQATGEREVNSIGYCVGGTLLAATLALH 328
Qy 164 S-----EKVKNLYVTWVTPVDFQTPGNLLSAWQNVQDV---DLAVDTMGNIPGELLNWTLS 216
Db 329 AAEGERIRSATLTFTTQVDFTHAGD-LKVFDVDDQIRHLEAMSATGYLEGSKMASAFNM 387
Qy 217 LKPFSLTQCKYVNMVLDLDDDEKVNFLRMEK-----WIFSDPDQAGETFRQFIKDF 268
Db 388 LRASELIWPYFN-----NYLKGQDPLPFDLLYWNSSDSTRPAAHHSFYLRNC 435
Qy 269 YORNGFINGVGLIGDOEVDLENIRCPVNIYPMQHLVPPDASKALAGLTSSDYTELAF 328
Db 436 YLENRLSRGEMMLAGRRVSLGDKVPIYVNLATKEDHIAF--AKSVFLGSSSFGGKVTFLV 493
Qy 329 PG-GHI-GI-----YVSKAQEGVTFAIGRWLNE 355
Db 494 SGSGHAGVWNPAPRSKYQYWTGGAPKG---DIETWVGK 529

RESULT 7

US-08-910-856-2
Sequence 2, Application US/08910856
Patent No. 5981257
GENERAL INFORMATION:
APPLICANT: FUKUI, TOSHIAKI
APPLICANT: DOI, YOSHITARU
TITLE OF INVENTION: POLYESTER SYNTHASE GENE AND PROCESS
TITLE OF INVENTION: FOR PRODUCING POLYESTER
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: FISH & RICHARDSON P.C.
STREET: 4225 EXECUTIVE SQUARE, SUITE 1400
CITY: LA JOLLA
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

```

; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthese
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756,317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007,693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: M0BT:008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 589 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-756-317-5

Query Match 14.0%; Score 264.5; DB 2; Length 589;
Best Local Similarity 26.3%; Pred. No. 5.3e-20;
Matches 97; Conservative 58; Mismatches 157; Indels 57; Gaps

Qy 24 LGSGMQNLL-----KADQID-----TGVTPKDVVHREDKLVLYRYRPAQVATQT 58
Db 179 LRAGVRNMEDLFRGKISQTDSEAFEGVRNVAITEGAVFENEYFOLQY-KPLTDKVHA 237
Qy 69 IPLLIVVALVRRPYMTDIOEDSTIKGLLATGQDVYLIDWGYVPOQADRALTLDDYINGYI 128
Db 238 RPLLWPPCINKYIYLDLPESLVRHVVEQHTFVLVSRNPDSMAGSTWDDYIEHAA 297
Qy 129 DRCVDYLRETHGVQDQVNLGICGGAF---SLCYTALHSEKVKNLVTWTP-VDFQTPGN 184
Db 298 IRAIEVARDISGQDKINVLGFCVGGTIVSTALAVLAARGEHPAASVTLLTLLDFADTG- 356
Qy 185 LLSAWQNVQDVDLAVTGMNIPG-----ELNWTFLSLKPFSLTQCKYNNWVDLLD 235
Db 357 ILDFVFDVDEGHVQLREATLGGAGAPCALLRGLELAN-TFSFLRPNDLV-WNYV----- 407
Qy 236 DEDKVKNFLL-----MEKMTFSDPDQAGETEROFIKDFYORNGF-INGGVILGDQEV 286
Db 408 -----VDNLYKNGTVPFDDLLFWNGDATNLPGGWYCWYLRHTYQLNELKVPGLTVCGVPV 463
Qy 287 DLNRNRCPLVNIYPMQDHLVPPDASKALAGLTSSSEDYTELAFPGGHIGIYVSGKAQEGVT 346
Db 464 DLASIDVPTYIYGSREDHIVPWTAAVASTALLAN-----KLRFVLGASG-HIAGVINPPAK 518
Qy 347 PATGRWINE 355
Db 519 NKRSHTND 527

RESULT 9
US-08-756-317-14
; Sequence 14, Application US/08756317
; Patent No. 5849894

```

;; GENERAL INFORMATION:
;; APPLICANT: Clemente, Thomas E.
;; APPLICANT: Kishore, Ganesh M.
;; APPLICANT: Mitsky, Timothy A.
;; APPLICANT: Stark, David M.
;; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
;; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
;; NUMBER OF SEQUENCES: 15
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Arnold, White & Durkee
;; STREET: P.O. Box 4433
;; CITY: Houston
;; STATE: TX
;; COUNTRY: USA
;; ZIP: 77210-4433
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/756.317
;; FILING DATE: 25-NOV-1996
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 60/007.693
;; FILING DATE: 29-NOV-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Patterson, Melinda L.
;; REGISTRATION NUMBER: 33,062
;; REFERENCE/DOCKET NUMBER: MOBT:008
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (713) 787-1400
;; TELEFAX: (713) 787-1440
;; INFORMATION FOR SEQ ID NO: 14:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 561 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
US-08-756-317-14

Query Match 13.7%; Score 258; DB 2; Length 561;
Best Local Similarity 23.0%; Pred. No. 2.5e-19;
Matches 85; Conservative 61; Mismatches 157; Indels 66; Gaps 9;
Qy 5 PIDIRPKLTEEMLEYSRKLGEQMQLLKADQIDTCVTGPKDVVHREDKLVLYRXPQV 64
Db 169 PLKVDSDAFT-----VGENL-----AATPGKVFRNDLIELIQY-APOTE 207
Qy 65 ATQTIPLLIVYALVNRPYMTDIOEDRSTIKGLLATGQDVYLIDWGPQADRALTLDDYI 124
Db 208 QVHVPILAAPWINKYIILDLAPGSLAEAVQHGRTVFMISYRNPDSMRHITMDYY 267
Qy 125 NGYIDRCVDYLRETHGVQDVQNLGICQGGAFSLCVT-----ALHSEKVKNLVTMTVPDPFQ 180
Db 268 VDGIALTDVVEEITGSPKIEVLSICLGAMAAARAFAGDKRVSAFTMLNLLDYS 327
Qy 181 TPGNLLSAWQNVVDVLAVDTMGNTPGELLNWTFLSLKPFs-----LTQKYVNMVDLL 234
Db 328 QVGEL-----GLTDPATLDLVEFRMRQOGFLSGKEMAGSFDMI 366
Qy 235 DDEDKVQNF-----LRMEK-----WIFDSPQAGETFRFQIDFYORNGFINGVL 281
Db 367 RAKDLVFNWVSRWKKGEPAAPADILANNEDSTSPAEHSHYLSRGLGRNELAEGLYVL 426
Qy 282 GDQEVDLNRNRCFVLNIYPMQDHLVPPDASKALAGLTSSSEDTYELAFPGGHIGIYVSGKA 341
Db 427 DQQLNLHDIACDTYVVGAINDHVPWTSSYQAVNLLGG-DVRYVLTNGHVGAVNPPG 485
Qy 342 QGVTPAIG 350
Db 486 KRWFKAIG 494

RESULT 10
US-08-756-317-15
; Sequence 15, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756.317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007.693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 601 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-15

Query Match 13.6%; Score 257; DB 2; Length 601;
Best Local Similarity 24.1%; Pred. No. 3.6e-19;
Matches 99; Conservative 69; Mismatches 162; Indels 80; Gaps 16;
Qy 10 PKLTEEMLEYSRKLGEQMQLLKADQIDTC-----VTPKDVVHRE 50
Db 177 PDALERAIATDGESLVQGLENLVRDIEANNQDGLLVTLADPEAFVQGNLATTEGVSVYRN 236
Qy 51 DKLVLYRXPQAVATQIPULLIVYALVNRPYMTDIOEDRSTIKGLLATGQDVYLIDWGY 110
Db 237 RMFELIQKPTTETHET-PLLIFFPWINKFYIILDKPQNSLLKWLVDQGTFFVSVWN 295
Qy 111 PQADRALTLDDYI-NGYIDRCVDYLRETHGVQDVQNLGICQGGAFSLCVYALHSEK--- 166
Db 296 FDKSVAGIGMDYIREGYM-RAMAEVRSITRQKQINAVGYCIAGT-TLTLTLAHLQAGD 353
Qy 167 --VKNLVMTVTPDFQTPGN-----LLSAWQNVVDVLAVDTMGNIPGELLNWTFLSLKPF 220
Db 354 PSVRSATFTTLTDFSDPEGVGVFLNDDFVDGIERQVAVD-----GILDKTFMS-RTF 405
Qy 221 SLTGKQYVNMVDLDDDEKVKNFRLMEK-----WIFDSPQAGETFRFQIDFYORN 272
Db 406 S-----YLRSDLI-YQPAIKSYMGEAPPADLLYWNQDGTNLPQAQMAVEYLRGLCQD 459
Qy 273 GFINGVLIGDQEVDLNRNRCFVLNIYPMQDHLVPPDASKALAGLTSSSEDTYELAFPGGH 332

Db 460 RLAGGTFPVLSGVGLKDVTLVPCALACTDHIAPWKSFNFRGSGTDTKTFILSQSH 519
Qy 333 I-----GIYVS-GKA-----OEGVT-----PAIGRWLNR 356
Db 520 VAGIVNPPSRNKYGHVYNEGPAGTPESPREGAEFAGHAGSWPRGAWLAER 569
RESULT 11
US-08-756-317-12
; Sequence 12, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756.317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007.693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:008
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 590 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-12
Query Match 12.4%; Score 234.5; DB 2; Length 590;
Best Local Similarity 21.7%; Pred. No. 1e-16;
Matches 86; Conservative 64; Mismatches 172; Indels 75; Gaps 12;
Qy 10 PDKLTMELEYRSKLGEGMQ-----NLLKADQI-----DTGVTPKDVVHRE 50
Db 166 PEVIQOTVAEQENLVRGVHQVHDDVMNSGKYLSTRMNSDSFSGLKDLAYTPGAVVFEN 225
Qy 51 DKLVLYRRPAAQVATQTILLIVVALNRPYMTDIOEDRSTIKGLLATGQDVYLLDMGY 110
Db 226 DIFQLQYEATTENVYQT-PILVVPFFINKYVYLDLREQNSLVNWLROQGHVFLMSWN 284
Qy 111 PQADRALTDDYINGYIDRCVDYLRETHGVQVNLGTCQGAFLSLCYTALHSEK-----166
Db 285 PNAEQELTFADLITQGSVEALRVIEITGEKEANCIGYCIGTLLAAQAYYVAKRLKN 344
Qy 167 -VKLVVMTVTPVDFQTPGNL-----LSAWQNVVDVLDVMTGNIPCELLNWTFLSLK 218
Db 345 HVKSATYMATIIDFENPGSLGVFINPEVSVGLENLN-----NQLGYDFGRQLAVTFSLR 399

Qy 219 PFSLTGQYVNMVLLDDEDEKVKQFLRMEK-----WIFDSPQAGETFRQFIKDFYQ 270
Db 400 ENTLYWNYIID-----NYLKGKPEPDFDILYWNDSGTNIPAKIHNFLLRNLYL 447
Qy 271 RNFGIN-GGVLIGDQEVDLNRIRCPVLNIYPMQDHLVPPDASKALAGLTSSSEDTYELAPP 329
Db 448 NNELISPNAVKVGVLNLSRVKTPSFATQEDHIALWDTCTFRGADYLGGS-TLVLGE 506
Qy 330 GCHI-----GIYVSGKAQEGVTPTAIGRWLN 354
Db 507 SGHVAGIVNPPSRNKYGCYTNAKFENTK-----QWLD 539
RESULT 12
US-08-756-317-10
; Sequence 10, Application US/08756317
; Patent No. 5849894
; GENERAL INFORMATION:
; APPLICANT: Clemente, Thomas E.
; APPLICANT: Kishore, Ganesh M.
; APPLICANT: Mitsky, Timothy A.
; APPLICANT: Stark, David M.
; TITLE OF INVENTION: Improved Rhodospirillum Rubrum
; TITLE OF INVENTION: Poly-B-Hydroxyalkanoate Synthase
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/756.317
; FILING DATE: 25-NOV-1996
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007.693
; FILING DATE: 29-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MOBT:008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (713) 787-1400
; TELEFAX: (713) 787-1440
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 559 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-756-317-10
Query Match 11.8%; Score 222.5; DB 2; Length 559;
Best Local Similarity 25.3%; Pred. No. 1.9e-15;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGGMNLKADQIDTGVTPKD-----VVHREDKLVLRYRRPAQ 63
Db 153 KSLDLGSLNLAQ-DLVNNGGMPQSQVNMDAFEVGNKLTSGEAVVYRNDVLELIQY-KPT 210
Qy 64 VATQTIPLIVVALNRPYMTDIOEDRSTIKGLLATGQDVYLLDMGYPDQADRALTDDY 123
Db 211 EQVHARPLIVPPQINKFVFDLSPEKSLARVCLRSQQOTFIISWRNPTKQAREGLSTY 270
Qy 124 INGYIDRCVDYLRETHGVQVNLGICQGG-----AFSLCYTALHSEKVNKLVTMTVPDF 179

Db 271 IDA-LKEAVDAVLAITGSKDLNMLGACSGGTTCTALVGHYAALGENKVNALTLVSVLD- 328
Qy 180 QTPGNLLSAWQNVVDLAVD---TWGNIPGELLNWTFLSKPFSLTGQKYNMVDLLDD 236
Db 329 TTMNDQVALFVDEQTELEAAKRHSYQAGVLEGSEMAKVFAMWRPNDLIWNWYNNY-LIGN 387
Qy 237 EDKVNFLRMKEWIFDSPDQAGETFRQFIKDFYQNRNGFINGGVL-IGDQEVDLNRICPV 295
Db 388 EPPVFDIL---FWNNDT-TRLPAAFHGDLEIEMFKSNPLTRPDALVCGGTPIDLKQVKCDI 443
Qy 296 LNIYPMQDHLVP 307
Db 444 YSLAGTNDHITP 455

RESULT 13

US-09-105-537-2
; Sequence 2, Application US/09105537A
; Patent No. 6265202
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/105,537A
; CURRENT FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 5215
; TYPE: PRT
; ORGANISM: Streptomyces venezuelae
US-09-105-537-2

Query Match 11.8%; Score 222.5; DB 4; Length 5215;
Best Local Similarity 25.3%; Pred. No. 8.3e-14;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGGMQLLKADQIDTGVTPKD-----VHREDKLVYRYRRPAQ 63
Db 4809 KSLLDGLSLAK-DLVNNGMPSQVNDMAFEVGNLGTSEGAVVYRNDVLELIQY-KPIT 4866
Qy 64 VATQITPLIVVALNRPYMTIQEDRSTIKGLATGQDVYLIDWGYPDQADRALTLDDY 123
Db 4867 EQVHARPLLVPPQINKFVFDLSPEKSLARYCLRSQQQTFIISWRNPTKAQREWGLSTY 4926
Qy 124 INGYIDRCVDYLRETHGVQDVNLLGTICQGG---AFSLCYTALHSEKVNKLVMTVTPVDF 179
Db 4927 IDA-LKEAVDAVLAITGSKDLNMLGACSGGTTCTALVGHYAALGENKVNALTLVSVLD- 4984
Qy 180 QTPGNLLSAWQNVVDLAVD---TWGNIPGELLNWTFLSKPFSLTGQKYNMVDLLDD 236
Db 4985 TTMNDQVALFVDEQTELEAAKRHSYQAGVLEGSEMAKVFAMWRPNDLIWNWYNNY-LIGN 5043
Qy 237 EDKVNFLRMKEWIFDSPDQAGETFRQFIKDFYQNRNGFINGGVL-IGDQEVDLNRICPV 295
Db 5044 EPPVFDIL---FWNNDT-TRLPAAFHGDLEIEMFKSNPLTRPDALVCGGTPIDLKQVKCDI 5099
Qy 296 LNIYPMQDHLVP 307
Db 5100 YSLAGTNDHITP 5111

RESULT 14

US-09-052-339-1
; Sequence 1, Application US/09052339
; Patent No. 5968805
; GENERAL INFORMATION:
; APPLICANT: DOI Yoshiharu
; APPLICANT: FUKUI Toshiaki

APPLICANT: MATSUSAKI Hiromi
TITLE OF INVENTION: POLYESTER SYNTHASE AND A GENE CODING
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: DOI Yoshiharu
ADDRESSEE: FUKUI Toshiaki
STREET: c/o The Institute of Physical and Chemical Research, 2-1,
STREET: Hiroseawa
CITY: Wako-shi
STATE: Saitama
COUNTRY: Japan
ZIP: 351-0198
ADDRESSEE: MATSUSAKI Hiromi
STREET: Huji Koopo ?-203, 1-4-96, Niikura,
CITY: Wako-shi
STATE: Saitama
COUNTRY: Japan
ZIP: 351-0115
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentcin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,339
FILING DATE: 3/30/98
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 82965/1997
FILING DATE: 01-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Lisa A. Haile
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07898/025001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)678-5070
TELEFAX: (619)678-5099
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 559 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-052-339-1

Query Match 11.8%; Score 221.5; DB 2; Length 559;
Best Local Similarity 25.1%; Pred. No. 2.5e-15;
Matches 78; Conservative 55; Mismatches 145; Indels 33; Gaps 11;

Qy 22 RKLGGMQLLK-----ADQID-----TGVTPKDVHREDKLVYRYRRPAQV 64
Db 153 KSLLDGLTHLAKDLVNNCGMPSQVNDMAFEVGNLGTSEGAVVYRNDVLELIQY-RPITE 211
Qy 65 ATQITPLIVVALNRPYMTIQEDRSTIKGLATGQDVYLIDWGYPDQADRALTLDDYI 124
Db 212 QVHERPLLVPPQINKFVFDLSPEKSLARCLSNQQTFFIVSWRNPTKAQREWGLSTYI 271
Qy 125 NGYIDRCVDYLRETHGVQDVNLLGTICQGG---AFSLCYTALHSEKVNKLVMTVTPVDFQ 180
Db 272 DA-LKEAVDVVSAITGSKDINMLGACSGGITCTALLGHYAALGEKKVNALTLVSVLD-T 329
Qy 181 TPGNLLSAWQNVVDLAVD---TWGNIPGELLNWTFLSKPFSLTGQKYNMVDLLDDE 237
Db 330 TLDQVALFVDEKTELEAAKRHSYQAGVLEGDRDMAKVFAMWRPNDLIWNWYNNY-LIGN 388
Qy 238 DKVNFLRMKEWIFDSPDQAGETFRQFIKDFYQNRNGFINGGVL-IGDQEVDLNRICPV 296
Db 389 PVPFDIL---FWNNDT-TRLPAAFHGDLEIEMFKNPLVRANALEVSGTPIDLKQVTADYI 444
Qy 297 NIYPMQDHLVP 307

Db 445 SLAGTNDHITP 455

RESULT 15

US-09-385-742B-1
; Sequence 1, Application US/09385742B
; Patent No. 6391611
; GENERAL INFORMATION:
; APPLICANT: Doi, Yoshiharu
; APPLICANT: Fukui, Toshiaki
; APPLICANT: Matusaki, Hiromi
; TITLE OF INVENTION: POLYESTER SYNTHASE AND A GENE CODING FOR
; TITLE OF INVENTION: THE SAME
; FILE REFERENCE: 07898-047001
; CURRENT APPLICATION NUMBER: US/09/385,742B
; PRIOR FILING DATE: 1999-08-30
; PRIOR APPLICATION NUMBER: JP 82965/1997
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Pseudomonas
US-09-385-742B-1

Query Match 11.8%; Score 221.5; DB 4; Length 559;
Best Local Similarity 25.1%; Pred. No. 2.5e-15;
Matches 78; Conservative 55; Mismatches 145; Indels 33; Gaps 11;

QY 22 RKLGEQMNLK-----ADQID-----TGVTPKDVVHREDKLVLYRRPAQV 64
Db 153 KSLDGLTHLAKDLVNGMPSQVDMGAFEVGKSLGTTEGAVVFRNDVLELIQY-RPTTE 211
QY 65 ATQTIPLLIYVALVNRPMYMTDIEDRSTIKGLLATGQDVYLIDWGYPDOADRALTLDDVI 124
Db 212 QVHERPLLVVPQINKFYVFDLSPDKSLARFCLSNNOQTFFVSWRNPTKAQREWGLSTYI 271
QY 125 NGVIDRCVDYLRETHGVQVQVNLGICGG----AFSLCYTALHSEKYNLVTMTVPVDFQ 180
Db 272 DA-LKEADVWSAITGSKDINMLGACSGGITCTALLGHYAALGEKKVNAITLLVSVLD-T 329
QY 181 TPGNLLSANVQVVDVLAVD---TMGNIPEGELLNWTFLSLKPFSLTGQKYVNMVLLDDE 237
Db 330 TLDSQVAFVDEKTEAKRHSYQAGVLEGRDMAKVFAWMRPNDLIWNYWVNNY-LLGNE 388
QY 238 DKVKNFLRMEKWFIDSPDQAGETFRQFDYQYRNGFINGGVL-IGDQEVDLNIRCPVL 296
Db 389 PVVFDIL---FMNNDT-TRLPAAFHGDLEMFKNPLVRANALEVSGTPIDLKQVTADY 444
QY 297 NIYPMODHLVP 307
Db 445 SLAGTNDHITP 455

Search completed: March 23, 2003, 05:54:20
Job time : 37.5442 secs

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GenCore version 5.1.4_p5-4578
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OM protein - protein search, using sw model

Run on: March 23, 2003, 06:00:52 ; Search time 37.9682 Seconds
(without alignments)
502.684 Million cell updates/sec

Title: US-09-779-427-3
Perfect score: 1884
Sequence: 1 VSPFDIRPDKLTSEMLEY.....SGKAQGVTPAIGRWLNERG 357

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 221153 seqs, 53462247 residues
Total number of hits satisfying chosen parameters: 221153

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications AA:*
- 1: /cgn2_6/ptodata/2/pubpaa/US09_NEW PUB.pep.*
 - 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW PUB.pep.*
 - 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW PUB.pep.*
 - 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
 - 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW PUB.pep.*
 - 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
 - 7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
 - 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
 - 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW PUB.pep.*
 - 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
 - 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW PUB.pep.*
 - 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
 - 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW PUB.pep.*
 - 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1884	100.0	357	10	US-09-779-427-3 Sequence 3, Appli
2	583.5	31.0	362	9	US-09-479-040-11 Sequence 11, Appli
3	272	14.4	576	9	US-09-364-847-37 Sequence 37, Appli
4	272	14.4	712	9	US-09-364-847-49 Sequence 49, Appli
5	272	14.4	712	9	US-09-364-847-51 Sequence 51, Appli
6	222.5	11.8	559	9	US-09-364-847-21 Sequence 21, Appli
7	222.5	11.8	856	9	US-09-364-847-33 Sequence 33, Appli
8	222.5	11.8	856	9	US-09-364-847-35 Sequence 35, Appli
9	222.5	11.8	5215	9	US-09-860-846-2 Sequence 2, Appli
10	222.5	11.8	5215	10	US-09-861-389-2 Sequence 2, Appli
11	202	10.7	559	10	US-09-820-721A-1 Sequence 1, Appli
12	198	10.5	559	10	US-09-820-953-1 Sequence 1, Appli
13	192	10.2	559	9	US-10-218-519-1 Sequence 1, Appli
14	192	10.2	559	10	US-09-821-016-1 Sequence 1, Appli
15	192	10.2	559	10	US-09-820-952A-1 Sequence 1, Appli
16	190	10.1	560	10	US-09-820-952A-3 Sequence 3, Appli
17	189.5	10.1	560	9	US-10-218-519-3 Sequence 3, Appli
18	189.5	10.1	560	10	US-09-821-016-3 Sequence 3, Appli
19	184	9.8	560	10	US-09-820-721A-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-779-427-3
; Sequence 3, Application US/09779427
; Patent No. US20010031489A1
; GENERAL INFORMATION:
; APPLICANT: STEINBUCHER, Alexander
; APPLICANT: LIEBERGESELL, Matthias
; APPLICANT: VALENTIN, Henry
; APPLICANT: PRIES, Andreas
; TITLE OF INVENTION: Process for manufacturing polyhydroxylic fatty acids, and recomb
; TITLE OF INVENTION: bacterial strains for carrying out the process
; FILE REFERENCE: MOBT:152-2 - 11899.0152.DVUS01
; CURRENT APPLICATION NUMBER: US/09/779.427
; CURRENT FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: US 09/420,119
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US 08/809,286
; PRIOR FILING DATE: 1997-07-03
; PRIOR APPLICATION NUMBER: WO 96/08566
; PRIOR FILING DATE: 1995-09-15
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Thiocapsa pfennigii
US-09-779-427-3

Query Match 100.0%; Score 1884; DB 10; Length 357;
Best Local Similarity 100.0%; Pred. No. 1.4e-170;
Matches 357; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VSPFDIRPDKLTSEMLEYSRKLGEGMQLLKADQIDGTGTPKDVVHREDKLVLYRYR 60
Db 1 VSPFDIRPDKLTSEMLEYSRKLGEGMQLLKADQIDGTGTPKDVVHREDKLVLYRYR 60

Qy 61 PAQVATQIPLIVLVNRPYMTDIOEDRSTIKGLLATGQDVYILIDMGYPQADRALTL 120
Db 61 PAQVATQIPLIVLVNRPYMTDIOEDRSTIKGLLATGQDVYILIDMGYPQADRALTL 120

Qy 121 DDYINGYIDRCVDYLYRETHGVQVQVNLGICQGFASLCYATLHSEKVNKLVTMTVPDQF 180
Db 121 DDYINGYIDRCVDYLYRETHGVQVQVNLGICQGFASLCYATLHSEKVNKLVTMTVPDQF 180

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Db 121 DDYINGIDRCVDYLRETHGVQVNLGICQGFSLCYTALHSEKVKULVTMTVPDQF 180
Qy 181 TPGNLLSAWQVNDVLA VDTMGNIPEGELLNWTFLSLKPFSLTGQKYNMVDLLDDEK 240
Db 181 TPGNLLSAWQVNDVLA VDTMGNIPEGELLNWTFLSLKPFSLTGQKYNMVDLLDDEK 240
Qy 241 KNFLRMEKWI FSDPQAGETFRQFIKDFYQNGFINGGVLDQGVDLNRICPVNIYP 300
Db 241 KNFLRMEKWI FSDPQAGETFRQFIKDFYQNGFINGGVLDQGVDLNRICPVNIYP 300
Qy 301 MODHLVPPDASKALAGLTSSDYTELAPFGGHIGYVSGKAQEGVTPAIGRWLNERN 357
Db 301 MODHLVPPDASKALAGLTSSDYTELAPFGGHIGYVSGKAQEGVTPAIGRWLNERN 357

RESULT 2
US-09-479-040-11
; Sequence 11, Application US/09479040
; Publication No. US20020182690A1
; GENERAL INFORMATION:
; APPLICANT: McCool, Gabriel J.
; APPLICANT: Cannon, Maura C.
; APPLICANT: Cannon, Francis C.
; APPLICANT: Valentin, Henry E.
; APPLICANT: Gruys, Kenneth J.
; TITLE OF INVENTION: POLYHYDROXYALKANOATE BIOSYNTHESIS ASSOCIATED PROTEINS
; FILE REFERENCE: M08T212
; CURRENT APPLICATION NUMBER: US/09/479,040
; CURRENT FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 11
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Bacillus megaterium
US-09-479-040-11

Query Match 31.0%; Score 583.5; DB 9; Length 362;
Best Local Similarity 36.3%; Pred. No. 2.7e-47;
Matches 128; Conservative 74; Mismatches 142; Indels 9; Gaps 6;

Qy 11 DKLTSEM-LEY---SRKLGEGHQLLKADQIDTGVTPKDVVHREDKLVLYRRPAQVAT 66
Db 10 EKLKIMSPSEYKSSARRFRAYEIMTTEAPEVEGLTPKEVIWKQKAKLYRY-TPVKONL 68
Qy 67 QTIPLLVVALNRPYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQADRALTLDDYING 126
Db 69 HKTPLLVTALINKPILDTLPGNSLVYLLNRGDFVYLLDWTGTEGLEDNSNMKLDYI 128
Qy 127 YIDRCVDYLRETHGVQVNLGICQGFSLCYTALHSE-KVKNLVTMTVPDFTQGNL 185
Db 129 YLPKAAKVLRTSKSPDLSVLGVCWGTTWTSIFAALNEDLPKKNLIFMTSPFDSDTG-L 187
Qy 186 LSAWQV--VDVLA VDTMGNIPEGELLNWTFLSLKPFSLTGQKYNMVDLLDDEKVKNF 243
Db 188 YGAFLDDRYFLNDKAVDTFGNIPPEMIDFGNKMLKPITTFYGPYVTLVDRSENQRFVESW 247
Qy 244 LMEKWI FSDPQAGETFRQFIKDFYQNGFINGGVLDQGVDLNRICPVNIYPQD 303
Db 248 KLMQKWAADGIFPAGAYRQWRIDFYQQNKLINGEVRGRKVDLKNITKANILNTAASRD 307
Qy 304 HLVPDASKALAGLTSSDYTELAPFGGHIGYVSGKAQEGVTPAIGRWLNERN 356
Db 308 HTAMPQVAALMDAVSSDEKYEKLQGTGHVSUVFGPKAVKETYPSIGDWLEKR 360

RESULT 3
US-09-364-847-37
; Sequence 37, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
```

```
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalit W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 37
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Zoogloea ramigera
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(576)
; OTHER INFORMATION: synthase
US-09-364-847-37

Query Match 14.4%; Score 272; DB 9; Length 576;
Best Local Similarity 24.9%; Pred. No. 1.8e-17;
Matches 96; Conservative 65; Mismatches 168; Indels 56; Gaps 14;

Qy 6 IDIRPDKLTE---EMLEYSRKLG---GMQNLKADQIDTG-----VTPKDVVHREDKLV 55
Db 155 IETKGESLTRGLVNMGLGDIINMGIDINNGHISLSDSAFVGRNLAITPGTVIYENPLFQL 214
Qy 56 YRYPRAQVATQTIPLLVVALNRPYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQAD 115
Db 215 IQYTTTPTVSQR-PLLMVPPCINKFYILDQPNLSLVRYAVEQNTVFLISWNPDKSL 273
Qy 116 RALTLDDYINGIDRCVDYLRETHGVQVNLGICQGF---AFSLCYTALHSE-KVKNL 171
Db 274 AGTTWDDYVEQGVLEAIRIVQDVSGQDKLNMFGFCVGTIVATALAVLAARQHPAASLT 333
Qy 172 TMTVPDFTQGNL LSAWQVNDVLA VDTMGNIPEGELLNWTFLSLKPFSLTGQKYN 228
Db 334 LTTFLDFSDTG--CSTSCRETQVALREQQLRDGLAPGRDLASTFSSLRPNDLV-WNYV 390
Qy 229 NMVDLLDDEKVKFLRMEKWI FSDPQAGETFRQFIKDFYQNGF-INGGVLDQGV 287
Db 391 QSNYLKGNPEAPFOLL---FWNSDSTNLPQPMFCWYLRNTYLENSLKVPKGLTVAGEKID 447
Qy 288 LRNIRCPVLNIYPMQDHLVP-----PDASKALAGLTSSDYTELAFPGGH 332
Db 448 LGLIDAPAFIYGSREDHIVPMWSAYGSLDILNQKPGKANRFVLGAS-----GH 495
Qy 333 IGIYVSGKAQEGVTPAIGRWLNERN 357
Db 496 IAGVINSVAKNKR-----YINDGG 516

RESULT 4
US-09-364-847-49
; Sequence 49, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalit W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 49
; LENGTH: 712
; TYPE: PRT
; ORGANISM: Artificial Sequence
```

```
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthase (R)
; OTHER INFORMATION: specific enoyl-CoA transferase Fusion Protein
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(712)
US-09-364-847-49

Query Match          14.4%; Score 272; DB 9; Length 712;
Best Local Similarity 24.9%; Pred. No. 2.4e-17;
Matches 96; Conservative 65; Mismatches 168; Indels 56; Gaps 14;

Qy 6 IDIRPKLTE---EMLEYSRKIGE---GMQNLKADQIDTG---VTPKDVVHREDKLV 55
Db 155 IETKESLTRGLVNMGLDINNGHISUSDSASAFEVGRNLAITPGTVIYENPLFOL 214

Qy 56 VYRRPAQAVATQIPLLIYALVNRPMYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQAD 115
Db 215 IQYTPPTVSQR-PLLMVPPCINKFYILDLPENSLVRYAVEQNTVFLISMSNPKSL 273

Qy 116 RALTLDDYINGVYDRCVLRETHGVQDVQNLIGICOGG---AFSLCYTALHSE-KVKNLV 171
Db 274 AGTTWDDYVEQVIAIRIVQDVSGQDKLNMFGFCVGGTIVATALAVLAARGHPPAASLT 333

Qy 172 TMVTPVDFQTPGNLLSAWQNVVDVLAVDTM---GNIPGELLNWTFLSLKPSLTGQKV 228
Db 334 LITLDFSDTG--CSTCRETQVALREQOQRDGLMPGRDLASTFSSLRPNDLV-WNVV 390

Qy 229 NMVDLDDDEDKVKFLRMKEWIFDSDQAGETFRFQKDFYQNRGF-INGGVLIQDQEV 287
Db 391 QSNYLLKGNPEAFAFDLL---FWNSDSTNLPMPFCWYLRNTYLENSLKVPGLTVAGEKID 447

Qy 288 LRNIRCPVLNIYPMODHLVP-----PDASKALAGLTSSSEDTYELAPPQGH 332
Db 448 LGLIDAPAFIYGRSDHIVPMWSAYGSLDILNQKPGANRFVLGAS-----GH 495

Qy 333 IGIYVSGKAQEGVTPAIGRWLNERG 357
Db 496 IAGVINSVAKNKRT----YWINDGG 516

RESULT 5
US-09-364-847-51
; Sequence 51, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalte W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 51
; LENGTH: 712
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: (R) - specific
; OTHER INFORMATION: enoyl-CoA transferase Synthase Fusion Protein
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(712)
US-09-364-847-51

Query Match          14.4%; Score 272; DB 9; Length 712;
Best Local Similarity 24.9%; Pred. No. 2.4e-17;
Matches 96; Conservative 65; Mismatches 168; Indels 56; Gaps 14;
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Qy 6 IDIRPKLTE---EMLEYSRKIGE---GMQNLKADQIDTG---VTPKDVVHREDKLV 55
Db 291 IETKESLTRGLVNMGLDINNGHISUSDSASAFEVGRNLAITPGTVIYENPLFOL 350

Qy 56 VYRRPAQAVATQIPLLIYALVNRPMYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQAD 115
Db 351 IQYTPPTVSQR-PLLMVPPCINKFYILDLPENSLVRYAVEQNTVFLISMSNPKSL 409

Qy 116 RALTLDDYINGVYDRCVLRETHGVQDVQNLIGICOGG---AFSLCYTALHSE-KVKNLV 171
Db 410 AGTTWDDYVEQVIAIRIVQDVSGQDKLNMFGFCVGGTIVATALAVLAARGHPPAASLT 469

Qy 172 TMVTPVDFQTPGNLLSAWQNVVDVLAVDTM---GNIPGELLNWTFLSLKPSLTGQKV 228
Db 470 LITLDFSDTG--CSTCRETQVALREQOQRDGLMPGRDLASTFSSLRPNDLV-WNVV 526

Qy 229 NMVDLDDDEDKVKFLRMKEWIFDSDQAGETFRFQKDFYQNRGF-INGGVLIQDQEV 287
Db 527 QSNYLLKGNPEAFAFDLL---FWNSDSTNLPMPFCWYLRNTYLENSLKVPGLTVAGEKID 583

Qy 288 LRNIRCPVLNIYPMODHLVP-----PDASKALAGLTSSSEDTYELAPPQGH 332
Db 584 LGLIDAPAFIYGRSDHIVPMWSAYGSLDILNQKPGANRFVLGAS-----GH 631

Qy 333 IGIYVSGKAQEGVTPAIGRWLNERG 357
Db 632 IAGVINSVAKNKRT----YWINDGG 652

RESULT 6
US-09-364-847-21
; Sequence 21, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalte W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 21
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Pseudomonas oleovorans
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(559)
; OTHER INFORMATION: PHA Polymerase
US-09-364-847-21

Query Match          11.8%; Score 222.5; DB 9; Length 559;
Best Local Similarity 25.3%; Pred. No. 8.3e-13;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGEQMNLKADQIDTGVTPKD-----VVHREDKLVLYRRRPAQ 63
Db 153 KSLDGLGNLAK-DLVNNGGMPFSQVNMDAFEVGNLGTSEGAVVYRNDVLELIQY-KPIT 210

Qy 64 VATQIPLLIYALVNRPMYMTDIOEDRSTIKGLLATGQDVYLDWGYPDQADRALTLDDY 123
Db 211 EQVHARPLLVPPQINKFYVFDLSPEKSLARYCLRSQQOTFIISWRNPTKAOREWGLSTY 270

Qy 124 INGYIDRCVDYLRETHGVQDVQNLIGICOGG-----AFSLCYTALHSEKVNLMVTPVDF 179
Db 271 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKVNALTLVSVLD- 328

Qy 180 QTPGNLLSAWQNVVDVLAVD---TGMNIPGELLNWTFLSLKPSLTGQKYNMVDLDD 236
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Db 329 TMDNQVALFVDEQTLAARHSYQAGVLEGSEMAKVFAWMPNDLIWYNNY-LLGN 387
Qy 237 EDKVNFLRMEKWIIPDSPPQAGETFRQFIKDFYQRNGFINGVL-IGDOEVDLRNIRCPV 295
Db 388 EPPVFDIL---FWNDT-TRLPAAFHGDLIEMFKSNPLTRPDALEVCCTPIDLKQVKCDI 443
Qy 296 LNIYPMQDHLVP 307
Db 444 YSLAGTNDHITP 455

RESULT 7
US-09-364-847-33
; Sequence 33, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjal't W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33
; LENGTH: 856
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ACP-CoA
; OTHER INFORMATION: ACP-CoA Transferase Fusion Protein
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(856)
US-09-364-847-33

Query Match 11.8%; Score 222.5; DB 9; Length 856;
Best Local Similarity 25.3%; Pred. No. 1.5e-12;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGEOMNLLKADQIDTGVTPKD-----VVHREDKLVLYRRRPAQ 63
Db 153 KSLDGLSNLAK-DLVNNGMPSQVNMDAFEVGNLGTSEGA VVYRNDVLELIQY-KPIT 210
Qy 64 VATQTPIILLIVVLPNRYMTDIOEDRSTIKGLATGQDVYLIDWGYPDQADRALTLDDY 123
Db 211 EQVHARPLLVPPQINKFYVFDLSPEKSLARYCLRSQQOTFIISWRNPTKAQREWGLSTY 270
Qy 124 INGYIDRCVDYLRETHGVQDVQNNLIGICOGG-----AFSLCYTALHSEKVNLTVMTPVDF 179
Db 271 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKNALTLVSVLDD- 328
Qy 180 QTPGNLLSAWQNVQDVLDVLD---TWGNIPGELLNWTFLSKPFSLTGKQYNNMVDLLDD 236
Db 329 TMDNQVALFVDEQTLAARHSYQAGVLEGSEMAKVFAWMPNDLIWYNNY-LLGN 387
Qy 237 EDKVNFLRMEKWIIPDSPPQAGETFRQFIKDFYQRNGFINGVL-IGDOEVDLRNIRCPV 295
Db 388 EPPVFDIL---FWNDT-TRLPAAFHGDLIEMFKSNPLTRPDALEVCCTPIDLKQVKCDI 443
Qy 296 LNIYPMQDHLVP 307
Db 444 YSLAGTNDHITP 455

RESULT 8
US-09-364-847-35
; Sequence 35, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjal't W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 35
; LENGTH: 856
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Acyl ACP-CoA
; OTHER INFORMATION: Transferase Synthase Fusion Protein
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(856)
US-09-364-847-35

Query Match 11.8%; Score 222.5; DB 9; Length 856;
Best Local Similarity 25.3%; Pred. No. 1.5e-12;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGEOMNLLKADQIDTGVTPKD-----VVHREDKLVLYRRRPAQ 63
Db 153 KSLDGLSNLAK-DLVNNGMPSQVNMDAFEVGNLGTSEGA VVYRNDVLELIQY-KPIT 210
Qy 64 VATQTPIILLIVVLPNRYMTDIOEDRSTIKGLATGQDVYLIDWGYPDQADRALTLDDY 123
Db 211 EQVHARPLLVPPQINKFYVFDLSPEKSLARYCLRSQQOTFIISWRNPTKAQREWGLSTY 270
Qy 124 INGYIDRCVDYLRETHGVQDVQNNLIGICOGG-----AFSLCYTALHSEKVNLTVMTPVDF 179
Db 271 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKNALTLVSVLDD- 328
Qy 180 QTPGNLLSAWQNVQDVLDVLD---TWGNIPGELLNWTFLSKPFSLTGKQYNNMVDLLDD 236
Db 329 TMDNQVALFVDEQTLAARHSYQAGVLEGSEMAKVFAWMPNDLIWYNNY-LLGN 387
Qy 237 EDKVNFLRMEKWIIPDSPPQAGETFRQFIKDFYQRNGFINGVL-IGDOEVDLRNIRCPV 295
Db 388 EPPVFDIL---FWNDT-TRLPAAFHGDLIEMFKSNPLTRPDALEVCCTPIDLKQVKCDI 443
Qy 296 LNIYPMQDHLVP 307
Db 444 YSLAGTNDHITP 455

RESULT 9
US-09-860-846-2
; Sequence 2, Application US/09860846
; Patent No. US20020164742A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, D.H.
; APPLICANT: Liu, H.
; APPLICANT: Xue, Y.
; APPLICANT: Zhao, L.
; TITLE OF INVENTION: DNA encoding methymycin and pikromycin
; FILE REFERENCE: 600.438US1
; CURRENT APPLICATION NUMBER: US/09/860,846
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/105,537
; PRIOR FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 5215
; TYPE: PRT
; ORGANISM: Streptomyces venezuelae

US-09-860-846-2

Query Match 11.8%; Score 222.5; DB 9; Length 5215;
Best Local Similarity 25.3%; Pred. No. 2.1e-11;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGGMQLLKADQIDTGVTPKD-----VHREDKLVLYRRPQA 63
Db 4809 KSLDGLSLAK-DLVNNGMFSQVNMDFEYKNGLTSEGAVYRNDVLELIQY-KPIT 4866
Qy 64 VATQTIPLIVLVNRPYMTIQEDRSTIKGLLATGQDVYLDWGYDQADRALTLDDY 123
Db 4867 EQVHARPLLVPPQINKFVFDLSPEKSLARYCLRSQQQTFIISWRNPYKAQREGLSTY 4926
Qy 124 INGYDRCDVYURETHGVQVNLGICQGG-----AFSLCYTALHSEKVKVNTVMTVPDVF 179
Db 4927 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKVNALTLVSVLD- 4984
Qy 180 QTPGNLLSAWQNVQVDVLAVD---TWGNIPGELLNWTFLSKPFSITGQKYNNMVDLLDD 236
Db 4985 TTMDNOVALFVDEQTLAEAKRHSYQAGVLEGSEMAKVFAWMPNDLIMNYWVNNY-LIGN 5043
Qy 237 EDKVNFLRMKWIIFDSPDQAGETFRQFIKDFYQRNGFINGGV-IGDOEVDLRNIRCPV 295
Db 5044 EPPVFDIL---FWNDT-TRLPAAFHGDLEMFKNPLTRPDALEVCCTPIDLKQVKCDI 5099
Qy 296 LNIYPMQDHLVP 307
Db 5100 YSLAGTNDHITP 5111

RESULT 10

US-09-861-289-2

; Sequence 2, Application US/09861289

; Patent No. US20020110897A1

; GENERAL INFORMATION:

; APPLICANT: Sherman, D.H.

; APPLICANT: Liu, H.

; APPLICANT: Xue, Y.

; APPLICANT: Zhao, L.

; TITLE OF INVENTION: DNA encoding methymycin and piktomycin

; FILE REFERENCE: 600,438US1

; CURRENT APPLICATION NUMBER: US/09/861,289

; PRIOR FILING DATE: 2001-03-18

; PRIOR FILING DATE: 1998-06-26

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 2

; LENGTH: 5215

; TYPE: PRT

; ORGANISM: Streptomyces venezuelae

US-09-861-289-2

Query Match 11.8%; Score 222.5; DB 10; Length 5215;
Best Local Similarity 25.3%; Pred. No. 2.1e-11;
Matches 79; Conservative 55; Mismatches 143; Indels 35; Gaps 11;

Qy 22 RKLGGMQLLKADQIDTGVTPKD-----VHREDKLVLYRRPQA 63
Db 4809 KSLDGLSLAK-DLVNNGMFSQVNMDFEYKNGLTSEGAVYRNDVLELIQY-KPIT 4866
Qy 64 VATQTIPLIVLVNRPYMTIQEDRSTIKGLLATGQDVYLDWGYDQADRALTLDDY 123
Db 4867 EQVHARPLLVPPQINKFVFDLSPEKSLARYCLRSQQQTFIISWRNPYKAQREGLSTY 4926
Qy 124 INGYDRCDVYURETHGVQVNLGICQGG-----AFSLCYTALHSEKVKVNTVMTVPDVF 179
Db 4927 IDA-LKEAVDAVLAITGSKDLNMLGACSGGITCTALVGHYAALGENKVNALTLVSVLD- 4984
Qy 180 QTPGNLLSAWQNVQVDVLAVD---TWGNIPGELLNWTFLSKPFSITGQKYNNMVDLLDD 236
Db 4985 TTMDNOVALFVDEQTLAEAKRHSYQAGVLEGSEMAKVFAWMPNDLIMNYWVNNY-LIGN 5043

Qy 237 EDKVNFLRMKWIIFDSPDQAGETFRQFIKDFYQRNGFINGGV-IGDOEVDLRNIRCPV 295
Db 5044 EPPVFDIL---FWNDT-TRLPAAFHGDLEMFKNPLTRPDALEVCCTPIDLKQVKCDI 5099
Qy 296 LNIYPMQDHLVP 307
Db 5100 YSLAGTNDHITP 5111

RESULT 11

US-09-820-721A-1

; Sequence 1, Application US/09820721A

; Patent No. US20020098565A1

; GENERAL INFORMATION:

; APPLICANT: Canon INC.

; TITLE OF INVENTION: Polyhydroxyalkanoate synthase and gene encoding the same

; FILE REFERENCE: 4051022

; CURRENT APPLICATION NUMBER: US/09/820,721A

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 10

; SEQ ID NO 1

; LENGTH: 559

; TYPE: PRT

; ORGANISM: Pseudomonas putida P91

; FEATURE:

; OTHER INFORMATION: Polyhydroxyalkanoate synthase

US-09-820-721A-1

Query Match 10.7%; Score 202; DB 10; Length 559;
Best Local Similarity 24.5%; Pred. No. 7.3e-11;
Matches 74; Conservative 48; Mismatches 142; Indels 38; Gaps 9;

Qy 27 GMONLLKADQIDTG---VTPKDVVHREDKLVLYRRPQAQVATQTIPLIIVLVNRPY 82
Db 171 GMPSQVNMDAFEVGKNLATTGEGAVVRNDVLELIQY-REITEQVHEKPLLVPPQINKSY 229
Qy 83 MTDIOEDRSTIKGLLATGQDVYLDWGYDQADRALTLDDYINGYIDRCVYLRTHGV 142
Db 230 VFDLSPEKSLARFCLRSTVQTFIVSWRPNKRSQEWGLSTYIDA-LKEAVDVVLAITGSK 288
Qy 143 QVNLGICQGG---AFSLCYTALHSEKVKVNTVMTVPDFTPGNLLSAWQNVVDVLA 198
Db 289 DLNMLGACSGGITCTALVGHYAALGEEKVNALTLLVSVLD-----TTLDTQVALP 338
Qy 199 VDTM-----GNIPGELLNWTFLSKPFSITGQKYNNMVDLLDDEKVKNFRLM 246
Db 339 VDEQTLSEAKRHSYQAGVLEGEDMAKVFAWMPNDLIMNYWVNNY-LLGNEPVPFDILEW 397
Qy 247 EKWIFDSPDQAGETFRQFIKDFYQRNGFINGGV-IGDOEVDLRNIRCPVLNIPYMQDHL 305
Db 398 NNDITRLP---AAFHGDLEMFKNPLVRPGALEVCGTPIDLSQVTTDIFSAGTNDHI 453
Qy 306 VP 307
Db 454 TP 455
RESULT 12
US-09-820-953-1
; Sequence 1, Application US/09820953
; Patent No. US20010055795A1
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 4051019
; CURRENT APPLICATION NUMBER: US/09/820,953
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Microsoft Word
; SEQ ID NO 1
; LENGTH: 559
; TYPE: PRT

; ORGANISM: Pseudomonas cichorii YN2 ; FERM BP-7375
US-09-820-953-1

Query Match 10.5%; Score 198; DB 10; Length 559;
Best Local Similarity 25.1%; Pred. No. 1.7e-10;
Matches 72; Conservative 45; Mismatches 132; Indels 38; Gaps 10;

Qy 40 GVTPKDVVHREDKLVLYRRPAAQVATQTIPLLIYVALVNRPMYTDIOEDRSTIKGLLAT 99
Db 188 GVTEGAVVFRNDVLELIQY-KPTTEQVHERPLLVPPQINKFYVFDLSPEKSLARFCLRN 246
Qy 100 GQVYLIDWGYPDQADRALTLDDYINGYIDRCVDYLRETHGVQVNLGICOGG----AF 155
Db 247 NVQTFIVSWRNPTKEQREWGLSTYIEA-LKEAVDVVTAITGSKDVNMLGACSGGITCTAL 305
Qy 156 SLICYTALHSEKVKNLVMTVPDFTQPGNLLSAWQNVQVNDVLAV-----DTM----- 202
Db 306 LGHYAAGENKVNALTLLVSVLD-----TTLSDVALFVDEQTLAEAKRSYQAG 353
Qy 203 -GNIPGELLNMTFLSLKPFSLTGQKYVNMVDLLDDEKVKNFLRMEKWI FDS PQAGET 261
Db 354 AGVLEGRDMKVFAWRPNDLIWNVWNNY-LLGNEPPVFDIL---FWNNDT-TRLPAAF 408
Qy 262 RQIFKDFYQNGFINGVL-IGDOEVDLRNRCPLVNIYPMQDHLVP 307
Db 409 HGDLELFKNPLIRPNALEVCCTPIDLKQVTADIFSLAGTNDHITP 455

RESULT 13

US-10-218-519-1

; Sequence 1, Application US/10218519
; Publication No. US20030049806A1

; GENERAL INFORMATION:

; APPLICANT: Yano, Tetsuya

; APPLICANT: Imamura, Takeshi

; APPLICANT: Suda, Sakae

; APPLICANT: Honma, Tsutomu

; FILE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme

; FILE REFERENCE: 03500.015225.1

; CURRENT APPLICATION NUMBER: US/10/218,519

; CURRENT FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 09/821,016

; PRIOR FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: Microsoft word

; SEQ ID NO 1

; LENGTH: 559

; TYPE: PRF

; ORGANISM: Pseudomonas jessenii P161 ; FERM BP-7376

US-10-218-519-1

Query Match 10.2%; Score 192; DB 9; Length 559;
Best Local Similarity 24.9%; Pred. No. 6.5e-10;
Matches 71; Conservative 43; Mismatches 137; Indels 34; Gaps 9;

Qy 40 GVTPKDVVHREDKLVLYRRPAAQVATQTIPLLIYVALVNRPMYTDIOEDRSTIKGLLAT 99
Db 188 GVTEGAVVFRNDVLELIQY-KPTTEQVHERPLLVPPQINKFYVFDLSPEKSLARFCLRN 246
Qy 100 GQVYLIDWGYPDQADRALTLDDYINGYIDRCVDYLRETHGVQVNLGICOGG----AF 155
Db 247 NVQTFIVSWRNPTKEQREWGLSTYIEA-LKEAVDVVTAITGSKDVNMLGACSGGITCTAL 305
Qy 156 SLICYTALHSEKVKNLVMTVPDFTQPGNLLSAWQNVQVNDVLAVTM-----G 203
Db 306 LGHYAAGENKVNALTLLVSVLD-----TTLSDVALFVDEQTLAEAKRSYQAG 355
Qy 204 NIPGELLNMTFLSLKPFSLTGQKYVNMVDLLDDEKVKNFLRMEKWI FDS PQAGET 263
Db 356 VLEGRDMKVFAWRPNDLIWNVWNNY-LLGNEPPVFDIL---FWNNDT-TRLPAAFHG 410
Qy 264 FIKDFYQNGFINGVL-IGDOEVDLRNRCPLVNIYPMQDHLVP 307

Db 411 DLIEMFKSNPLTRADALEVCCTPIDLKQVTADIFSLAGTSDHITP 455

RESULT 14

US-09-821-016-1

; Sequence 1, Application US/09821016

; Patent No. US20010046692A1

; GENERAL INFORMATION:

; APPLICANT: CANON INC.

; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme

; FILE REFERENCE: 4051021

; CURRENT APPLICATION NUMBER: US/09/821,016

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: Microsoft Word

; SEQ ID NO 1

; LENGTH: 559

; TYPE: PRF

; ORGANISM: Pseudomonas jessenii P161 ; FERM BP-7376

US-09-821-016-1

Query Match 10.2%; Score 192; DB 10; Length 559;

Best Local Similarity 24.9%; Pred. No. 6.5e-10;

Matches 71; Conservative 43; Mismatches 137; Indels 34; Gaps 9;

Qy 40 GVTPKDVVHREDKLVLYRRPAAQVATQTIPLLIYVALVNRPMYTDIOEDRSTIKGLLAT 99
Db 188 GVTEGAVVFRNDVLELIQY-KPTTEQVHERPLLVPPQINKFYVFDLSPEKSLARFCLRN 246
Qy 100 GQVYLIDWGYPDQADRALTLDDYINGYIDRCVDYLRETHGVQVNLGICOGG----AF 155
Db 247 NVQTFIVSWRNPTKEQREWGLSTYIEA-LKEAVDVVTAITGSKDVNMLGACSGGITCTAL 305
Qy 156 SLICYTALHSEKVKNLVMTVPDFTQPGNLLSAWQNVQVNDVLAVTM-----G 203
Db 306 LGHYAAGENKVNALTLLVSVLD-----TTLSDVALFVDEQTLAEAKRSYQAG 355
Qy 204 NIPGELLNMTFLSLKPFSLTGQKYVNMVDLLDDEKVKNFLRMEKWI FDS PQAGET 263
Db 356 VLEGRDMKVFAWRPNDLIWNVWNNY-LLGNEPPVFDIL---FWNNDT-TRLPAAFHG 410
Qy 264 FIKDFYQNGFINGVL-IGDOEVDLRNRCPLVNIYPMQDHLVP 307
Db 411 DLIEMFKSNPLTRADALEVCCTPIDLKQVTADIFSLAGTSDHITP 455

RESULT 15

US-09-820-952A-1

; Sequence 1, Application US/09820952A

; Patent No. US20010053544A1

; GENERAL INFORMATION:

; APPLICANT: CANON INC.

; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same

; FILE REFERENCE: 4051020

; CURRENT APPLICATION NUMBER: US/09/820,952A

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: Microsoft Word

; SEQ ID NO 1

; LENGTH: 559

; TYPE: PRF

; ORGANISM: Pseudomonas cichorii H45 ; FERM BP-7374

US-09-820-952A-1

Query Match 10.2%; Score 192; DB 10; Length 559;

Best Local Similarity 24.9%; Pred. No. 6.5e-10;

Matches 71; Conservative 43; Mismatches 137; Indels 34; Gaps 9;

Qy 40 GVTPKDVVHREDKLVLYRRPAAQVATQTIPLLIYVALVNRPMYTDIOEDRSTIKGLLAT 99
Db 188 GVTEGAVVFRNDVLELIQY-KPTTEQVHERPLLVPPQINKFYVFDLSPEKSLARFCLRN 246

QY 100 QDVVLIIDNGYPOADRALTLDDYINGYIDRCVDYLRETHGVQDVNLLGICOGG-----AF 155
Db 247 NVQTFIVSWRNPTKEOREWGLSTYIEA-LKEAVDVVTAITGSKOVNMLGACSGGITCTAL 305
QY 156 SLCYTALHSEKVKNLVTMVPVDFQTPGNLLSAWVONVDVDLAVDTM-----G 203
Db 306 LGHYAAIGENKVNALTLLVSVLD-----TTLDSVALFVDEQTLAAKRSYQAG 355
QY 204 NIPGELLNWTFLSLKPFSLTGOKYVNMVDLLDDEKVKNFRLRMEKWFDSPOAGETFRQ 263
Db 356 VLEGRDMAKVFAMRPNDLIMNYWVNNY-LLGNEPVPFDIL---FWNNDT-TRLPAAFHG 410
QY 264 FIKDFYORNGFINGVL-IGDOEVDLRNRCVLIYPMQDHLVP 307
Db 411 DLIEMFKSNPLTRADALEVCCTPIDUKKVTADIFSLAGTSDHITP 455

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